ASBESTOS INSPECTION AND MANAGEMENT PLAN REPORT

Prepared for:

GSA U.S. General Services Administration

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Project Location:

Federal Building
8930 Ward Parkway
Kansas City, MO

Project Number: 99143.18

Prepared by:

OCCU-TEC
ENERGY, ENVIRONMENTAL AND SAFETY SOLUTIONS

October 7, 2010

Asbestos Inspection and Management Plan Report – MO0134

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1. GENERAL INFORMATION

As authorized by the General Services Administration – Heartland Region (GSA), OCCU-TEC has developed an Asbestos Management Plan for the Federal Building in Kansas City, MO (MO0134). This Asbestos Management Plan was developed in accordance with the Environmental Protection Agency's (EPA's) Asbestos Hazard Emergency Response Act (AHERA) 40 CFR 763. 93, the United States Department of Labor, Occupational Safety and Health Administration's (OSHA's) Asbestos Standards [29 CFR 1910.1001, 29 CFR 1926.1101].

These regulations place the burden of asbestos management on the owners and operators of facilities that may contain asbestos-containing materials (ACMs), as well as employers whose employees may be expected to work near or with ACMs. As the GSA is both a facility owner and an employer, it has responsibilities in both aspects of the Standards. These responsibilities include identification of potential asbestos exposure hazards, notification of employees and occupants of the presence of ACM, employee awareness and operational training, record keeping, and management of renovations and maintenance operations.

In general, the management plan development process consists of:

- A review of available documents, such as blueprints, construction specifications, and previous asbestos inspection data.
- A visual inspection of building areas and elements to locate suspect ACM; sampling of suspect ACM as required; and assessment of the physical condition of the ACM.
- Analysis of the collected samples to confirm the suspected material as ACM.
- Assignment of required and appropriate response actions for all ACM identified.
- Development of an Operations and Maintenance Program to institute appropriate controls for the management of ACM remaining in-place.

This Management Plan should be used as the working document that outlines the procedures for undertaking asbestos related activities. A Management Plan should contain at least the following:

- Inspection report
- Planned response actions
- Remaining asbestos in the facility
- A plan for reinspection and other activities
- An Operations and Maintenance Plan (O&M)
- Description of hazard assessment for all ACBM
- Location and description of where preventative measures and response actions are to be implemented
- Justification for the action to be taken.
- Identification of ACBM which remains after response action

- Program for informing workers and building occupants

Elements such as response action documentation, employee training records, O&M procedures, reinspection and periodic surveillance records, etc. should be used in conjunction with this Management Plan Report. Copies of this Management Plan Report should be located at both the GSA Safety Office and at the facility.

2. GSA DESIGNATED PERSON ACKNOWLEGEMENT

In accordance with 40 CFR 763.93(i) of the EPA's AHERA regulation, the undersigned Designated Person (DP) hereby certifies that the following general responsibilities under 40 CFR 763.84 have been or will be met:

A. Ensure that the activities of any persons, who perform inspections, re-inspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance, are carried out in accordance with Part 763, Subpart E.

B. Ensure that all custodial and maintenance employees are properly trained as required by Part 763, Subpart E, and other applicable Federal and/or State regulations (e.g., the Occupational Safety and Health Administration asbestos standard for construction, the EPA Worker Protection rule, or applicable State regulations).

C. Ensure that workers and building occupants are informed at least annually about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress.

D. Ensure that short-term workers (e.g., contractors, telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a facility are provided information regarding the locations for ACBM and suspected ACBM assumed to be ACM.

E. Ensure that warning signs and labels are posted in accordance with 40 CFR 763.95, 1910.1001, and 1926.1101.

F. Ensure that management plans are available for inspection and notification of such availability has been provided as specified in the management plan under 40 CFR 763.93(g).

G. Designate a person to ensure that requirements under 763.84 are properly implemented and ensure that the designated person receives adequate training to perform duties assigned under 763.84. Such training shall provide, as necessary, basic knowledge of: health effects of asbestos; detection, identification, and assessment of ACBM; options for controlling ACBM; asbestos management programs; relevant Federal and State regulations concerning asbestos, including those in Part 763, Subpart E and those of the Occupational Safety and Health Administration, U.S. Department of Transportation and the U.S. Environmental Protection Agency.

H. Consider whether any conflict of interest may arise from the inter-relationship among accredited personnel and whether that should influence the selection of accredited personnel to perform response activities under Part 763, Subpart E.

Name of GSA Designated Person:_____

Designated Person's Signature:_____ **Date:**_____

3. PLAN FOR REINSPECTION

Under 40 CFR 763.93, a plan for reinspection must be included in the Management Plan. At least once every three years after a management plan has been in effect, a reinspection should be made by and accredited inspector of all friable and non-friable known or assumed ACBM.

4. PERIODIC REVIEW OF PLAN

The Management Plan should be periodically reviewed to maintain compliance. All asbestos-related records must be retained to comply with all Federal, State, and Local regulations. Records that are required to be maintained include, but are not limited to, the following:

- Employee training records for one year beyond the last date of each worker's employment.
- Inspection, reinspection, and assessment reports of all buildings surveyed indefinitely.
- Asbestos related employee medical records for duration of employment plus 30 years.
- OSHA personnel air sampling records for 30 years.
- A copy of this Management Plan.

All disposal documentation for a minimum of 30 years, but recommended to be kept indefinitely.

5. PERIODIC SURVEILLANCE OF ACBM

At least once every six months after a management plan has been in effect, periodic surveillance should be conducted. Each person performing periodic surveillance must: visually inspect all areas that are identified in the Management Plan as ACBM of assumed ACBM, record the date of the surveillance, his or her name, and any changes in the condition of the materials, and submit a copy of the record to the Designated Person for inclusion in the Management Plan.

6. SUMMARY OF ACBM RESPONSE ACTIONS

Controlling the release of asbestos fibers from ACBM is the basic purpose of the Management Plan, and there are various options available. AHERA refers to actions taken in buildings with ACBM as "response actions". Response action alternatives are defined by the AHERA Rule as follows:

- **Operations and Maintenance Program** – provide proper training of personnel, proper cleaning procedures, work practices, and periodic surveillance to assure friable ACBM is in good condition

- **Repair** – returning damaged ACBM to an undamaged condition

- **Encapsulation** – treating ACBM with a liquid that, after proper application, surrounds or embeds asbestos fibers in an adhesive matrix to prevent fiber release

- **Enclosure** – an air-tight (or as close to air-tight as possible to construct) barrier installed between the friable asbestos and the building environment

- **Removal** – stripping ACBM from its substrate

Records of all Response Actions should be included in the Management Plan.

7. LIMITATIONS, CERTIFICATION AND SIGNATURE

OCCU-TEC identified and collected samples of suspect ACBM from the Federal Building located at 8930 Ward Parkway in Kansas City Missouri. Because OCCU-TEC did not perform destructive sampling to structural elements and several areas were inaccessible, the possibility exists that some suspect asbestos-containing building material may remain undiscovered within walls, pipe chases, doors, etc. If during demolition or renovation activities, materials are found that do not match materials sampled, they should be considered Presumed Asbestos-Containing Materials, and treated as ACM until sampling and laboratory analysis meeting the AHERA requirements is conducted.

I, the undersigned, being an employee of OCCU-TEC located at 4151 N. Mulberry Drive, Suite 275, Kansas City, Missouri 64116, hereby certify that I conducted an inspection for asbestos-containing building materials at the aforementioned address on September 14, 2010.

(b) (6)

Inspector's Signature: _____ **Date:** October 7, 2010

Joshua Ashley
Missouri Licensed Asbestos Inspector
7011060310MOIR12619
Expires: 06/16/2011

I, the undersigned, being an employee of OCCU-TEC located at 4151 N. Mulberry Drive, Suite 275, Kansas City, Missouri 64116, hereby certify that to the best of my knowledge, the information gathered during the Asbestos Inspection and included in this Management Plan is correct and accurate.

Management Planner's Signature: (b) (6) **Date:** October 7, 2010

Jeff Smith
Missouri Licensed Management Planner
7011060310MOMR2285
Expires: 06/3/2011

Appendix A

Inventories of ACBM

Asbestos Inventory

MO0134

Monday, October 04, 2010

Ward Parkway Federal Building
8930 Ward Parkway
Kansas City MO

Floor ID: 01 **Func Spce #:** 05 **Location:** Cleaner's Room **Type of Mat'l:** Miscellaneous
Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound
Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 360 Sq. Ft. **Survey Date:** 08-Jul-10
Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide
Notes: 20x8

Floor ID: 01 **Func Spce #:** 06 **Location:** Compressor Room **Type of Mat'l:**
Description/ Homogeneous Mat'l:
Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 08-Jul-10
Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide
Notes: No Suspect ACM 45x22

Floor ID: 01 **Func Spce #:** 13 **Location:** Cubicle Work Area **Type of Mat'l:** Miscellaneous
Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound
Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 8400 Sq. Ft. **Survey Date:** 08-Jul-10
Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide
Notes: 110x165

Floor ID: 01 **Func Spce #:** 13 **Location:** Cubicle Work Area **Type of Mat'l:** Miscellaneous
Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard
Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 840 Ln. Ft. **Survey Date:** 08-Jul-10
Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide
Notes:

Caution: This report should NOT be relied upon as detailing 100% of all the asbestos-containing building materials (ACBM) within this facility; destructive testing was not done to discover all ACBM. Before commencing rennovation or construction projects, contact the GSA Safety and Environmental Management Team (6PFB) to have this inventory validated.

Asbestos Inventory

Monday, October 04, 2010

Floor ID: 01 **Func Spce #:** 13 **Location:** Cubicle Work Area **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 22900 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: 95x50

Floor ID: 01 **Func Spce #:** 49 **Location:** East Entrance **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 100 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 49 **Location:** East Entrance **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1500 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 49 **Location:** East Entrance **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 1 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 07 **Location:** Fire Pump Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** Assum **Sample Results:** **Qnty:** 1 Each **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

MO0134

Monday, October 04, 2010

Floor ID: 01 **Func Spce #:** 07 **Location:** Fire Pump Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 360 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: 20x8

Floor ID: 01 **Func Spce #:** 09 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Plaster

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 820 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 09 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x2' White w/Small Fissures and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 364 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 09 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 820 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: 28x13

Floor ID: 01 **Func Spce #:** 09 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Blue Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 82 Ln. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 01 **Func Spce #:** 02 **Location:** NITC Work Area **Type of Mat'l:**

Description/ Homogeneous Mat'l:

Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 08-Jul-10

Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide

Notes: No Access

Floor ID: 01 **Func Spce #:** 01 **Location:** NITC Access Point **Type of Mat'l:**

Description/ Homogeneous Mat'l:

Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 08-Jul-10

Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide

Notes: No Access

Floor ID: 01 **Func Spce #:** 04 **Location:** NITC Computer Lab **Type of Mat'l:**

Description/ Homogeneous Mat'l:

Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 08-Jul-10

Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide

Notes: No Access

Floor ID: 01 **Func Spce #:** 03 **Location:** NITC Lab **Type of Mat'l:**

Description/ Homogeneous Mat'l:

Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 08-Jul-10

Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide

Notes: No Access

Floor ID: 01 **Func Spce #:** 12 **Location:** NITC Server Room **Type of Mat'l:**

Description/ Homogeneous Mat'l:

Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 08-Jul-10

Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide

Notes: No Access

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 01 **Func Spce #:** 11 **Location:** Software Storage **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1060 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 11 **Location:** Software Storage **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 106 Ln. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 11 **Location:** Software Storage **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Black w/White Streaks Linoleum Flooring

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 313 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: Under Carpet

Floor ID: 01 **Func Spce #:** 11 **Location:** Software Storage **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 313 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 10 **Location:** Storage Room 1021 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 880 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 01 **Func Spce #:** 10 **Location:** Storage Room 1021 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Black w/White Streaks Linoleum Flooring

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 340 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 10 **Location:** Storage Room 1021 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 340 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 10 **Location:** Storage Room 1021 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** Assum **Sample Results:** **Qnty:** 1 Each **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 10 **Location:** Storage Room 1021 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 88 Ln. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 08 **Location:** Women's Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Plaster

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 2170 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 01 **Func Spce #:** 08 **Location:** Women's Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x2' White w/Small Fissures and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 756 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: 36x21

Floor ID: 01 **Func Spce #:** 08 **Location:** Women's Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 2170 Sq. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 01 **Func Spce #:** 08 **Location:** Women's Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Chocolate Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 51 Ln. Ft. **Survey Date:** 08-Jul-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 35 **Location:** **Type of Mat'l:**

Description/ Homogeneous Mat'l: No Access

Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 14-Sep-10

Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 39 **Location:** 2nd Floor Halls **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 3858 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 39 **Location:** 2nd Floor Halls **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 34722 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 39 **Location:** 2nd Floor Halls **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 6695 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 40 **Location:** Air Handler **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Plaster

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 950 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 40 **Location:** Air Handler **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1896 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 24 **Location:** Break Room 2404 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Sink Undercoat - White

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 8 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 24 **Location:** Break Room 2404 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 313 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 24 **Location:** Break Room 2404 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 75 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 24 **Location:** Break Room 2404 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 675 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 24 **Location:** Break Room 2404 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 313 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 23 **Location:** Computer Room 2079 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1152 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 23 **Location:** Computer Room 2079 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 960 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 23 **Location:** Computer Room 2079 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 128 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 25 **Location:** Computer Room 2302 and 2304 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1350 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 25 **Location:** Computer Room 2302 and 2304 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 150 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 25 **Location:** Computer Room 2302 and 2304 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 626 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Caution: This report should NOT be relied upon as detailing 100% of all the asbestos-containing building materials (ACBM) within this facility; destructive testing was not done to discover all ACBM. Before commencing rennovation or construction projects, contact the GSA Safety and Environmental Management Team (6PFB) to have this inventory validated.

Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 46 **Location:** East Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 240 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 46 **Location:** East Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Stair Tread - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 124 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 46 **Location:** East Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 3972 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 46 **Location:** East Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - Gray stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 400 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 46 **Location:** East Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - Orange stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 20 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 46 **Location:** East Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 24"x24" Flooring - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 118 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 46 **Location:** East Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 160 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 41 **Location:** Janitorial Closet **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 975 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 42 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 30 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 42 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 504 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 42 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 828 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 21 **Location:** Office 2080 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 846 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 21 **Location:** Office 2080 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 550 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 21 **Location:** Office 2080 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 94 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 26 **Location:** Office 2510 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 950 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

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Floor ID: 02 **Func Spce #:** 26 **Location:** Office 2510 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 400 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 26 **Location:** Office 2510 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 418 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 26 **Location:** Office 2510 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 4 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 26 **Location:** Office 2510 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 3600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 33 **Location:** Office and cubicle space 2028 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1323 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 33 **Location:** Office and cubicle space 2028 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 8318 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 33 **Location:** Office and cubicle space 2028 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 16 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 33 **Location:** Office and cubicle space 2028 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 600 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 33 **Location:** Office and cubicle space 2028 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 11907 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 27 **Location:** Office and cubicle space 2037 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 20295 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 27 **Location:** Office and cubicle space 2037 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Sink Undercoat - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 8 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 27 **Location:** Office and cubicle space 2037 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 760 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 27 **Location:** Office and cubicle space 2037 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 10720 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 27 **Location:** Office and cubicle space 2037 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 2255 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 27 **Location:** Office and cubicle space 2037 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 36 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 36 **Location:** Office and cubicle space 2210 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 5632 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 36 **Location:** Office and cubicle space 2210 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 446 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 36 **Location:** Office and cubicle space 2210 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 2 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 36 **Location:** Office and cubicle space 2210 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 4014 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 34 **Location:** Office and cubicle space 2212 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 2144 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 34 **Location:** Office and cubicle space 2212 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 450 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 34 **Location:** Office and cubicle space 2212 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 432 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 34 **Location:** Office and cubicle space 2212 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 3 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 34 **Location:** Office and cubicle space 2212 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 3888 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 28 **Location:** Office and cubicle space DOE OIG Audit **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 761 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

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Floor ID: 02 **Func Spce #:** 28 **Location:** Office and cubicle space DOE OIG Audit **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 480 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 28 **Location:** Office and cubicle space DOE OIG Audit **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 10 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 28 **Location:** Office and cubicle space DOE OIG Audit **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Sink Undercoat - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 8 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 28 **Location:** Office and cubicle space DOE OIG Audit **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 6849 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 28 **Location:** Office and cubicle space DOE OIG Audit **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 4700 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

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Floor ID: 02 **Func Spce #:** 29 **Location:** Office and cubicle space DOE OIG Investigations **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 2237 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 29 **Location:** Office and cubicle space DOE OIG Investigations **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 4212 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 29 **Location:** Office and cubicle space DOE OIG Investigations **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 468 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 29 **Location:** Office and cubicle space DOE OIG Investigations **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 532 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 29 **Location:** Office and cubicle space DOE OIG Investigations **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 7 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 38 **Location:** Office space 2002 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 4230 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 38 **Location:** Office space 2002 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 2600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 38 **Location:** Office space 2002 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 470 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 38 **Location:** Office space 2002 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 352 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 38 **Location:** Office space 2002 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 7 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 37 **Location:** Office space 2014 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 2331 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 37 **Location:** Office space 2014 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 2431 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 37 **Location:** Office space 2014 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 259 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 37 **Location:** Office space 2014 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 4 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 30 **Location:** Office space 2043 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 2268 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 30 **Location:** Office space 2043 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 864 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 30 **Location:** Office space 2043 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 252 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 30 **Location:** Office space 2043 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 4 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 31 **Location:** Office space 2047 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 64 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 31 **Location:** Office space 2047 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 1 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 31 **Location:** Office space 2047 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 247 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 31 **Location:** Office space 2047 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 576 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 32 **Location:** Office spaces 2048 and 2044 **Type of Mat'l:**

Description/ Homogeneous Mat'l: No Access

Is It Asbestos? **Friable?** **Sample Results:** **Qnty:** **Survey Date:** 14-Sep-10

Potential for Damage: **Condition of Mat'l:** **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 22 **Location:** Room 2405 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 214 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 22 **Location:** Room 2405 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 1800 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

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Floor ID: 02 **Func Spce #:** 22 **Location:** Room 2405 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1926 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 45 **Location:** South Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 24"x24" Flooring - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 305 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 45 **Location:** South Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1115 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 45 **Location:** South Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 400 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 45 **Location:** South Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Stair Tread - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 208 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 45 **Location:** South Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 130 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Stair Tread - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 124 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - Orange stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 10 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - Gray stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 200 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1952 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 80 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 130 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Stair Tread - Beige

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 56 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: 1st Floor only

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 12"x12" Floor Tile - White w/ gray streaks

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 100 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: 1st Floor only

Floor ID: 02 **Func Spce #:** 47 **Location:** West Stairwell **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 24"x24" Flooring - Gray

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 106 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 02 **Func Spce #:** 43 **Location:** Womens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 66 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 43 **Location:** Womens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Chocolate Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 40 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 43 **Location:** Womens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 1250 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 02 **Func Spce #:** 43 **Location:** Womens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1926 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 20 **Location:** 3rd Floor Halls **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 2400 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 03 **Func Spce #:** 20 **Location:** 3rd Floor Halls **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 3600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 20 **Location:** 3rd Floor Halls **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 800 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 14 **Location:** Central Break Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 180 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 14 **Location:** Central Break Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 2000 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 14 **Location:** Central Break Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - White stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 800 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 03 **Func Spce #:** 14 **Location:** Central Break Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - Gray stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 1280 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 14 **Location:** Central Break Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - Orange stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 10 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 14 **Location:** Central Break Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1800 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 19 **Location:** Mechanical Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Stop - Red

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 5 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 19 **Location:** Mechanical Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Fire Door

Is It Asbestos? Assumed **Friable?** No **Sample Results:** **Qnty:** 6 Each **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

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Floor ID: 03 **Func Spce #:** 19 **Location:** Mechanical Room **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 2000 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 15 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 15 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 15 **Location:** Mens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 60 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 18 **Location:** OIG Office and Cubicle area 3016 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Linoleum - Gray stone pattern

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1775 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Asbestos Inventory

Monday, October 04, 2010

Floor ID: 03 **Func Spce #:** 18 **Location:** OIG Office and Cubicle area 3016 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 46341 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 18 **Location:** OIG Office and Cubicle area 3016 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 5150 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 18 **Location:** OIG Office and Cubicle area 3016 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** None Detected **Qnty:** 264500 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 17 **Location:** SW Office Space 3041 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 8622 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 17 **Location:** SW Office Space 3041 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 13311 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

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Floor ID: 03 **Func Spce #:** 17 **Location:** SW Office Space 3041 **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Dark Gray Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1479 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 16 **Location:** Womens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Drywall and Drywall Joint Compound

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Medium **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 16 **Location:** Womens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 2'x4' White w/Divots and Pinholes Ceiling Tile

Is It Asbestos? No **Friable?** Yes **Sample Results:** **Qnty:** 600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: High **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: 03 **Func Spce #:** 16 **Location:** Womens Restroom **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: 4" Chocolate Baseboard

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 60 Ln. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: ROOF **Func Spce #:** 44 **Location:** Roof **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Rolled Roofing

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 61600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes: Partly under built up roof

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Floor ID: ROOF **Func Spce #:** 44 **Location:** Roof **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Rolled Asphalt Roofing - Walking Path

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 1237 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: ROOF **Func Spce #:** 44 **Location:** Roof **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Flashing Tar - Gray/Black

Is It Asbestos? No **Friable?** No **Sample Results:** None Detected **Qnty:** 12000 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Floor ID: ROOF **Func Spce #:** 44 **Location:** Roof **Type of Mat'l:** Miscellaneous

Description/ Homogeneous Mat'l: Built Up Roof

Is It Asbestos? No **Friable?** No **Sample Results:** **Qnty:** 61600 Sq. Ft. **Survey Date:** 14-Sep-10

Potential for Damage: Low **Condition of Mat'l:** Good **Scope of Survey:** Building Wide

Notes:

Caution: This report should NOT be relied upon as detailing 100% of all the asbestos-containing building materials (ACBM) within this facility; destructive testing was not done to discover all ACBM. Before commencing rennovation or construction projects, contact the GSA Safety and Environmental Management Team (6PFB) to have this inventory validated.

Appendix B

Management Planner's Recommendations

OCCU-TEC
ENERGY, ENVIRONMENTAL AND SAFETY SOLUTIONS

FUNCTIONAL SPACE HAZARD RANKINGS AND RESPONSE ACTION RECOMMENDATION

Client: GSA
Building: Ward Parkway Federal Building (MO0134)
Inspector: Joshua Ashley

10/6/2010

FLOOR	FUNCTIONAL SPACE ID	MAT. TYPE (T,S,M)	HOMOGENEOUS MATERIAL DESCRIPTION	QUANTITY (SF,LF,FG,EA)	ASBESTOS (Y, N, A)	LEVEL OF EXPOSURE				Poten ial / Type of Damage (C, V, A)	Physical Assess Code	Hazard Rank	Rec. Response Action
						Friability (Y, N)	Accessibility (L, M, H)	Condition (G, D, S)	Potential for Disturbance (S, D, L)				
01	07	M	Fire Door	1 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
01	10	M	Fire Door	1 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
03	19	M	Fire Door	6 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	26	M	Fire Door	4 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	27	M	Fire Door	36 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	28	M	Fire Door	10 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	29	M	Fire Door	7 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	30	M	Fire Door	4 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	31	M	Fire Door	1 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	33	M	Fire Door	16 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	34	M	Fire Door	3 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	36	M	Fire Door	2 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	37	M	Fire Door	4 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
02	38	M	Fire Door	7 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required
01	49	M	Fire Door	1 EA	A	N	L	G	S	C,V,A	NA	NA	O&M Required

OCCU-TEC
ENERGY, ENVIRONMENTAL AND SAFETY SOLUTIONS

4151 N. Mulberry Dr., Ste 275
Kansas City, MO 64116
816-231-5580
Fax 816-231-5641

PHYSICAL ASSESSMENT LEGEND AND HAZARD RANKINGS

MATERIAL TYPE	MATERIAL QUANTITY	ASBESTOS	FRIABILITY	ACCESSIBILITY	CONDITION
HOMO MAT = Homogeneous Material	**SF =** Square Feet	**Y =** Yes	**Y =** Yes	**L** = Low	**G** = Good
MAT TYPE = Material Type	**LF =** Linear Feet	**N** = No	**N =** No	**M** = Moderate	**D** = Damaged
T = Thermal	**FG =** Fitting	**A** = Assumed		**H** = High	**S** = Significantly Damaged
S = Surfacing	**EA** = Each				
M = Miscellaneous					

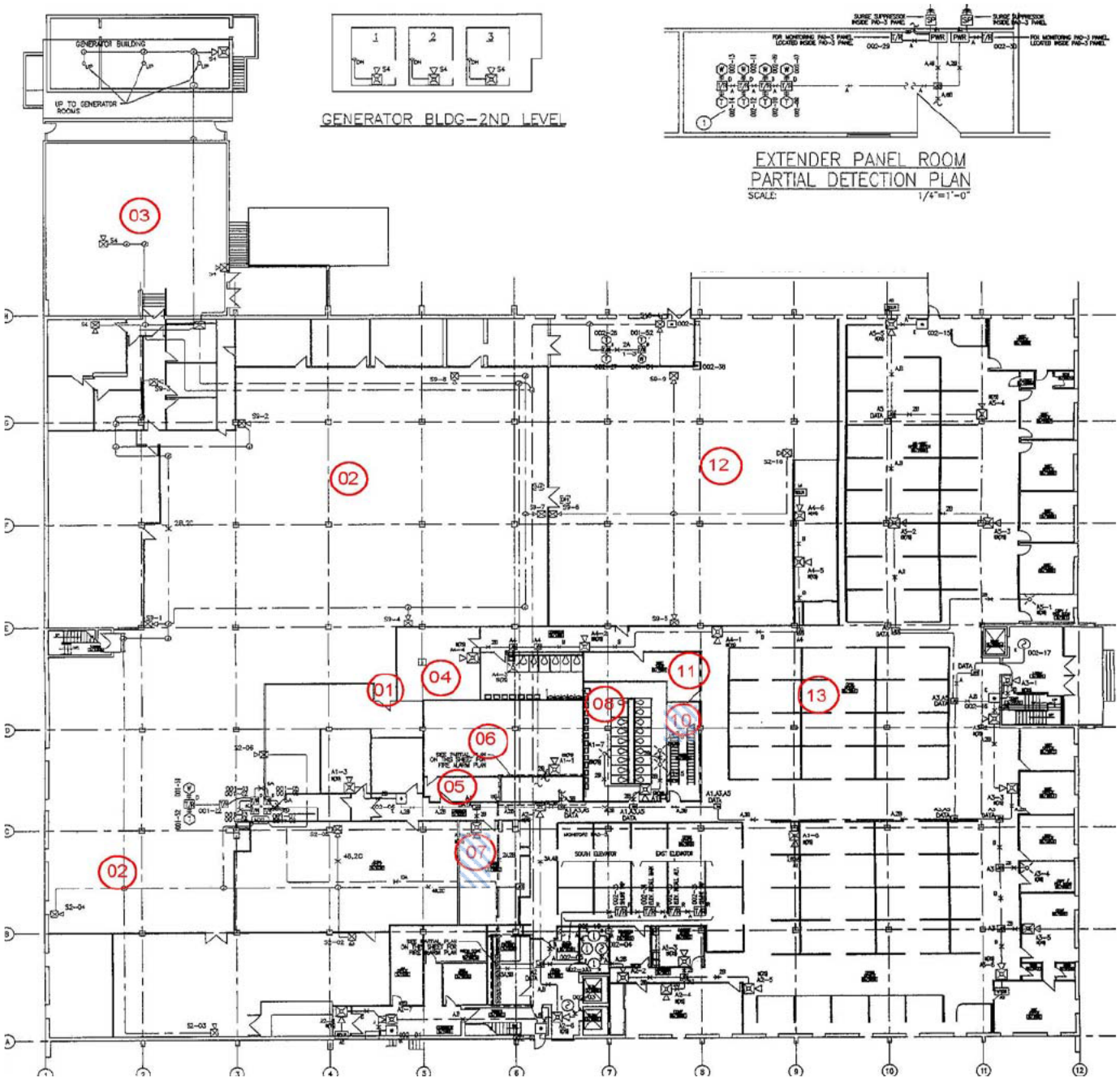
POTENTIAL FOR DISTURBANCE	POTENTIAL / TYPE OF DAMAGE	PHYSICAL ASSESSMENT
S = Significant Potential for Damage	**C** = Contact	**1 =** Damaged or significantly damaged friable suspect thermal system insulation
D = Damage	**V** = Vibration	**2 =** Damaged friable suspect surfacing ACM
L = Low Potential for Damage	**A** = Air Erosion	**3 =** Significantly damaged friable suspect surfacing ACM
		4 = Damaged or significantly damaged friable miscellaneous suspect ACM
		5 = Suspect ACM with potential for damage
		6 = Suspect ACM with potential for significant damage
		7 = Any remaining friable suspect ACM

HAZARD RANK ABATEMENT PRIORITY	ACM CONDITION	RECOMMENDED RESPONSE ACTION
1	Damaged or Significantly Damaged Friable Thermal System Insulation	Evacuate or isolate the area if needed. Remove the ACM (or enclose or encapsulate if sufficient to contain fibers). Repair of thermal system insulation is allowed if feasible and safe. O&M required for all ACM.
2	Damaged Friable Surfacing Material	Evacuate or isolate the area if needed. Remove, enclose, encapsulate or repair to correct damage. Take steps to reduce potential for disturbance. O&M required for all ACM.
3	Significantly Damaged Friable Surfacing Material	Evacuate or isolate the area if needed. Remove, enclose, encapsulate or repair to correct damage. Take steps to reduce potential for disturbance. O&M required for all ACM.
4	Damaged or Significantly Damaged Friable Miscellaneous ACM	Remove, enclose, encapsulate or repair to correct damage. O&M required for all ACM.
5	ACM with potential for Damage	Take steps to reduce potential for disturbance. O&M required for all ACM.
6	ACM with potential for Significant Damage	Take steps to reduce potential for disturbance. O&M required for all ACM.
7	All Remaining Friable ACM	O&M Required for all ACM.
NA	Not Applicable	O&M Required.

Appendix C

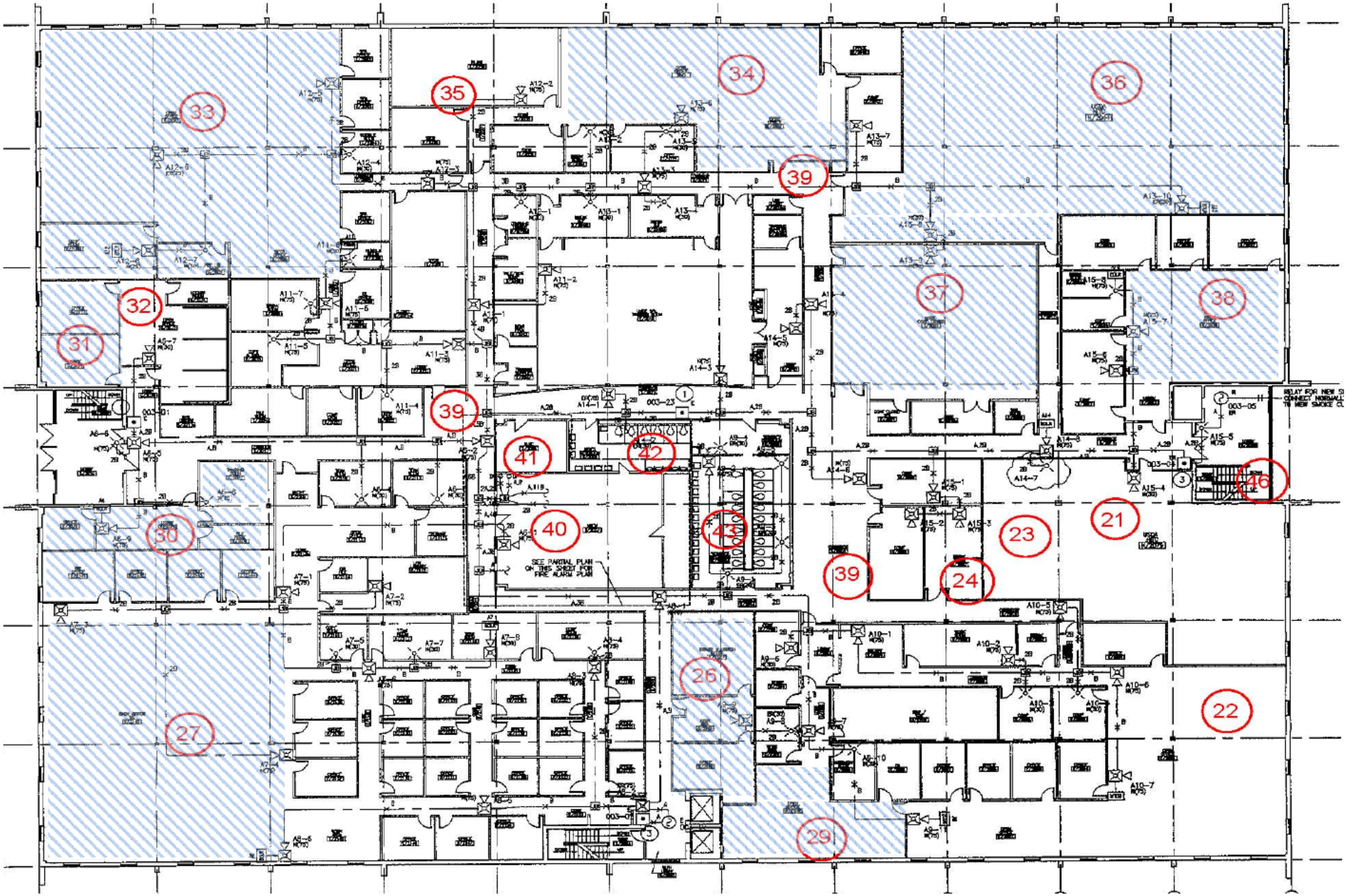
Floor Plans

Asbestos Locations - First Floor



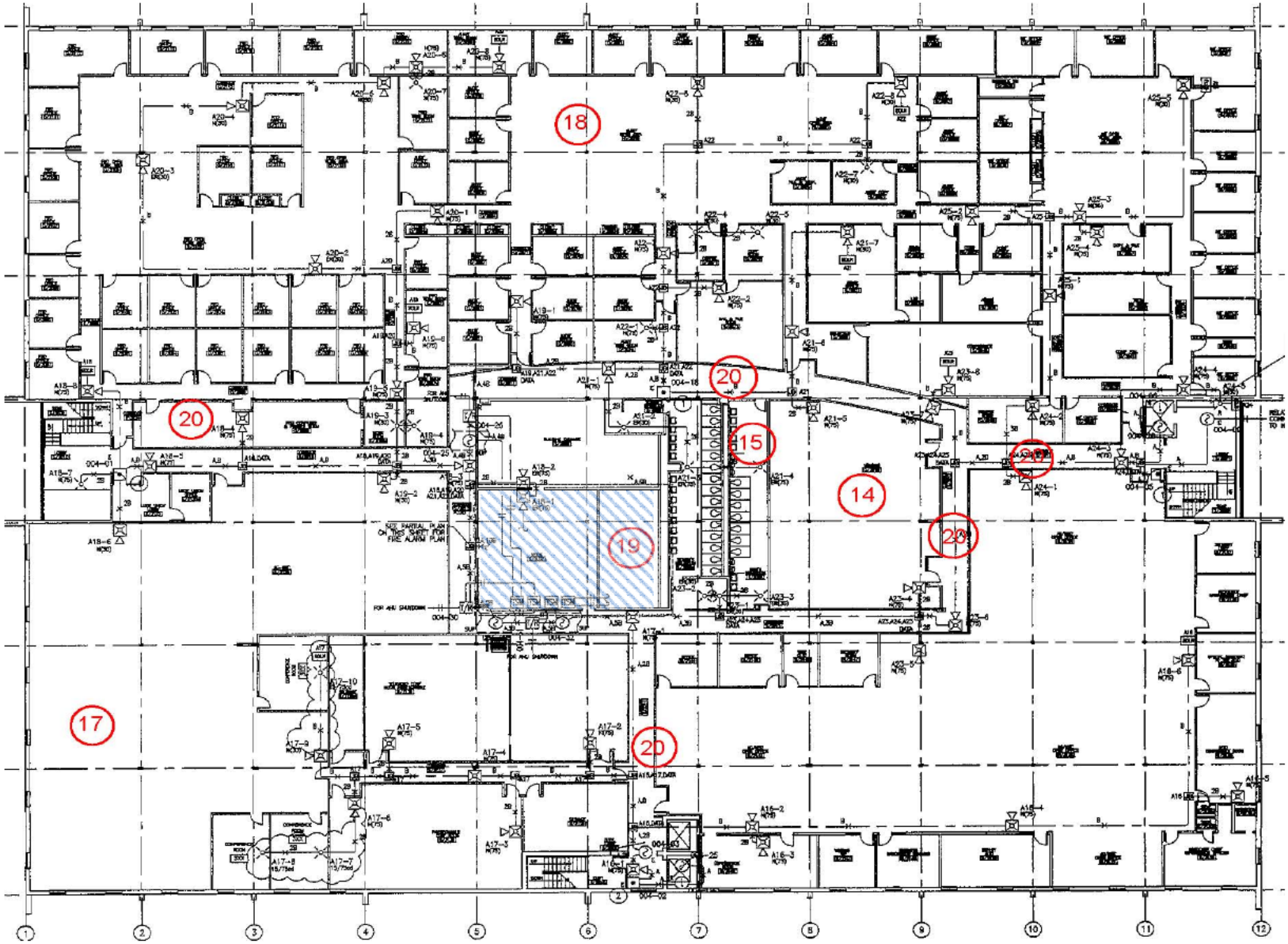
Fire Door (Assumed)

Asbestos Locations - Second Floor



Fire Door (Assumed)

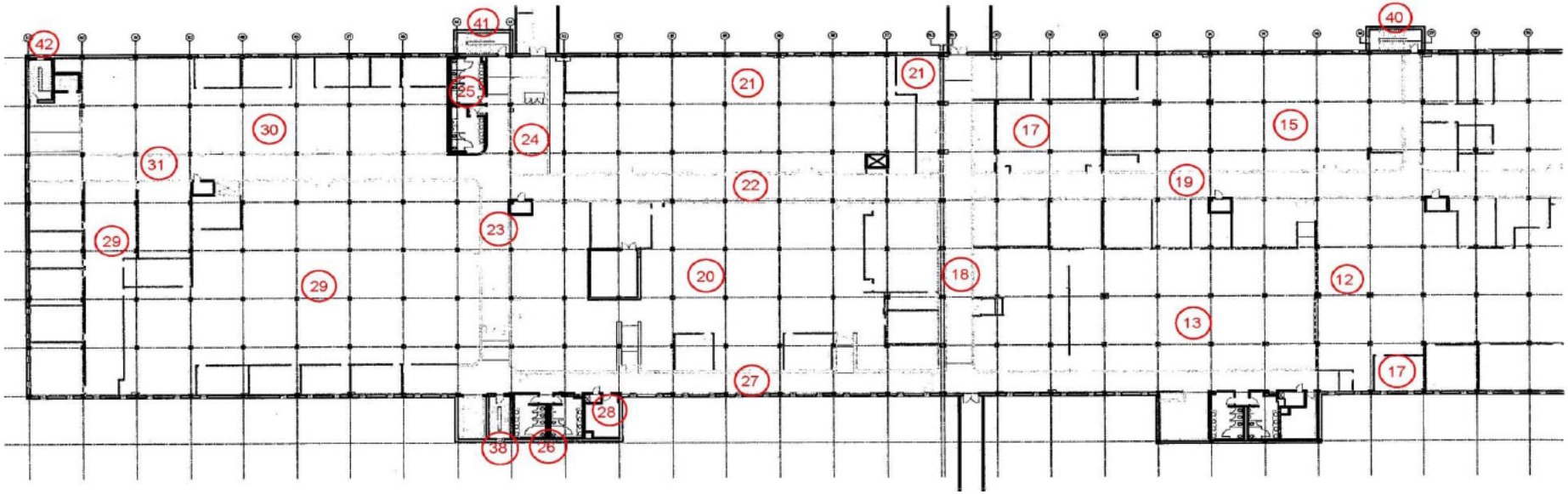
Asbestos Locations - Third Floor



Fire Door (Assumed)

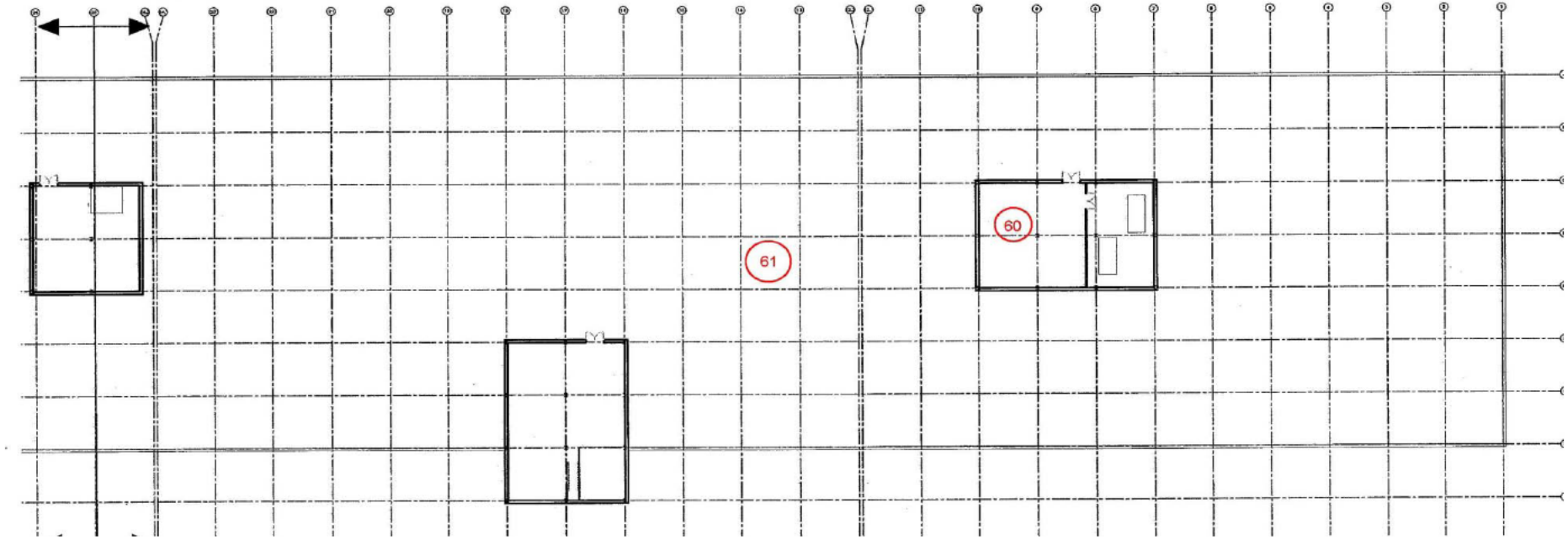
Asbestos Locations - Second Floor South

NO ACM Detected



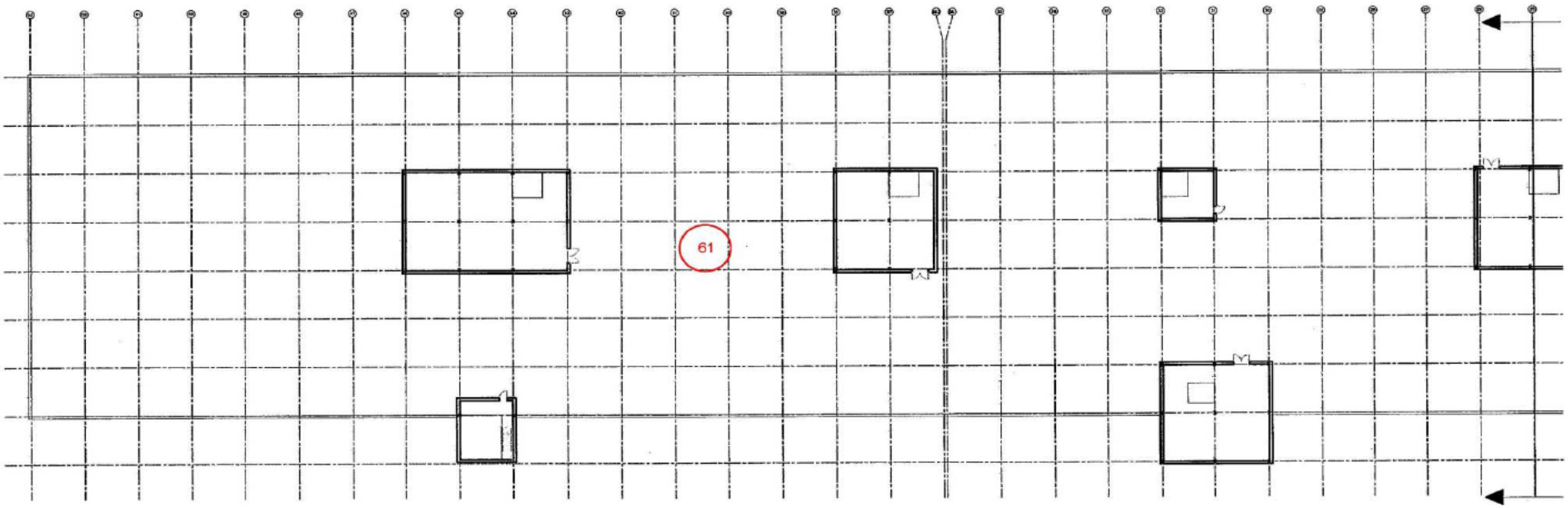
Asbestos Locations - Roof/Penthouse North

NO ACM Detected

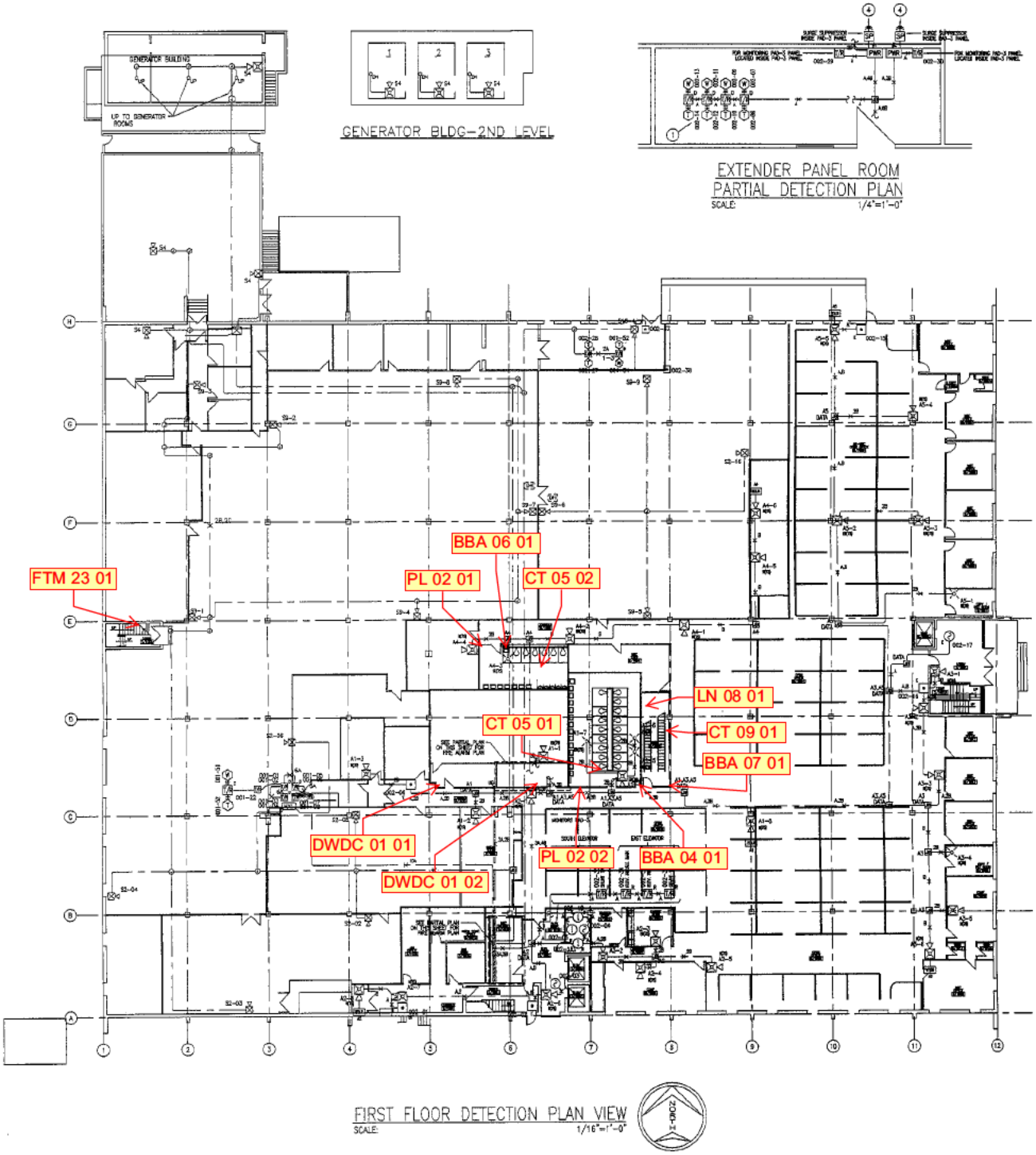


Asbestos Locations - Roof/Penthouse South

NO ACM Detected

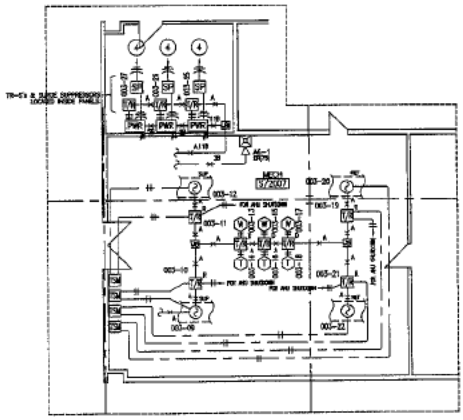


Asbestos Bulk Sample Locations MO0134 First Floor



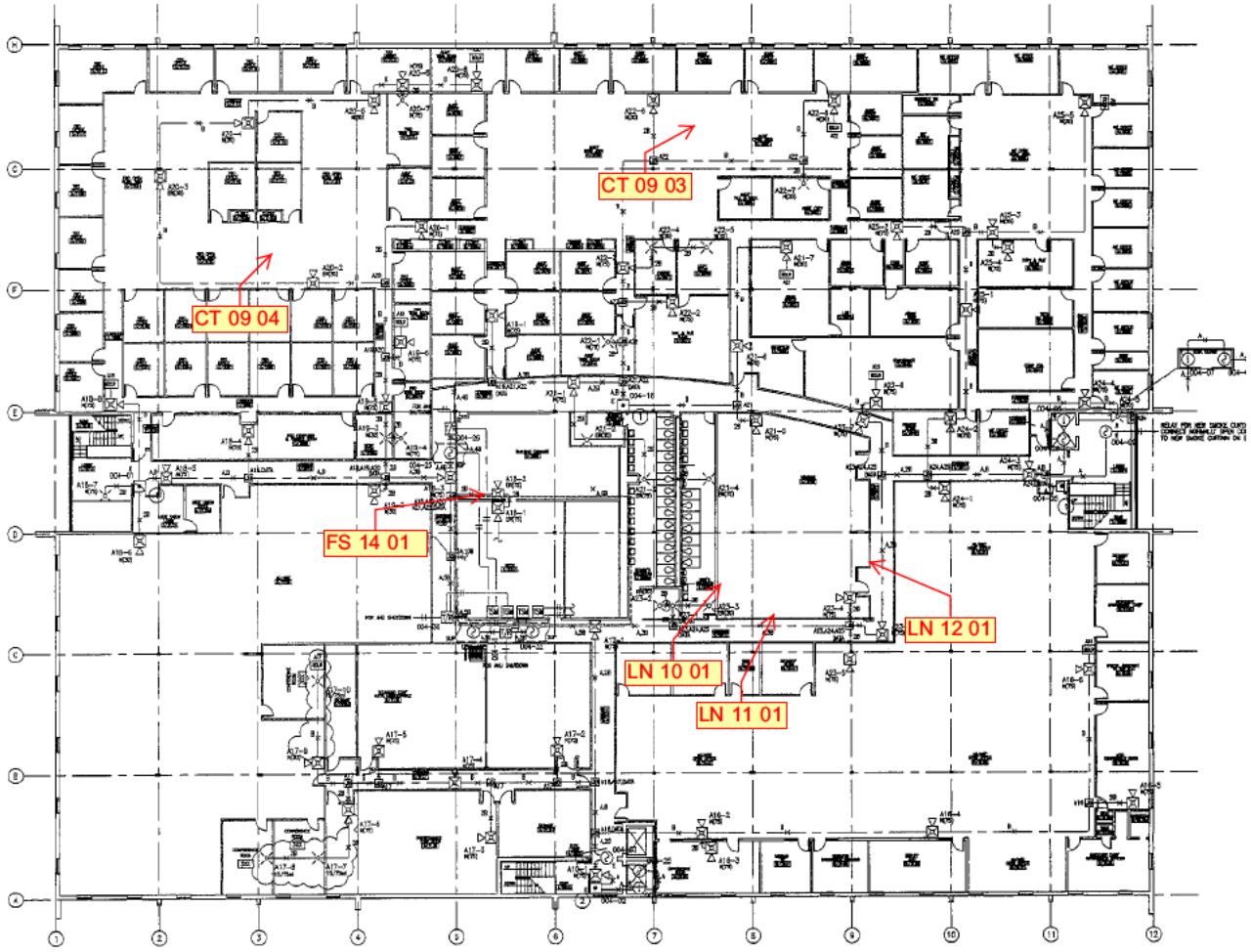
Asbestos Bulk Sample Locations MO0134 Second Floor

SECOND FLOOR DETECTION PLAN VIEW
SCALE: 1/16"=1'-0"

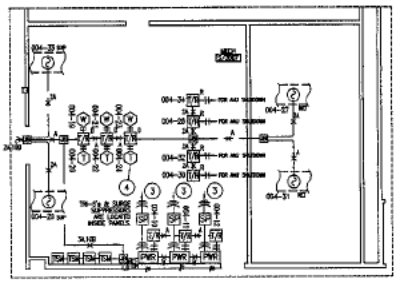


MECHANICAL ROOM DETAIL
SCALE: 1/8"=1'-0"

Asbestos Bulk Sample Locations MO0134 Third Floor



THIRD FLOOR DETECTION PLAN VIEW
SCALE: 1/16"=1'-0"



MECHANICAL ROOM DETAIL
NOT TO SCALE

Appendix D

O&M Procedures

O&M PROCEDURES

1.0 OVERVIEW

This section briefly describes the OSHA classifications of asbestos work. In addition, brief descriptions outlining the steps necessary to ensure that safe work practices and safe handling of asbestos-containing materials are properly implemented and included.

The OSHA Construction Standard [Title 29, CFR Part 1926.1101] provides detailed work practice and engineering control requirements based on four classifications of asbestos work. In general, Class I work poses the greatest risk and Class IV poses the least. The classes are summarized below:

a) **Class I**: Activities involving the removal of thermal system insulation (TSI) and sprayed-on, troweled-on, or otherwise applied surfacing ACM and PACM applied to surfaces, pipes and boilers. Class I work is generally accomplished by licensed, professional asbestos abatement contractors.

b) **Class II**: Activities involving the removal of asbestos-containing floor tile and associated mastics, wallboard, joint compounds, sheet flooring, roofing, transite, gaskets, and similar materials.

c) **Class III**: Repair and maintenance operations where ACM (including TSI and surfacing ACM and PACM) are likely to be disturbed. Examples of Class III asbestos work include disturbance and repair of small amounts of pipe insulation in the course of repairing a leaking valve; removal of small amounts of an ACM wall to repair electrical wiring; and removal of floor tile and mastic loosened by water damage.

d) **Class IV**: Custodial, maintenance, and construction activities during which employees contact, but do not disturb ACM or PACM; this also include activities to clean up waste and debris that may contain ACM or PACM. Examples include cleaning ACM floors, working around electrical and HVAC equipment; and dusting/vacuuming in areas where ACM pipe insulation is present.

2.0 WORK PRACTICES

Each ACM identified warrants a specific work practice to control exposure. These work practices include routine maintenance, patch and repair, encapsulation, enclosure, and removal. Any of these work practices may disturb or dislodge ACM or render the material friable and, therefore, safe work practices must be followed. The applicable regulations that outline such safe work practices and abatement strategies can be found in the following regulations:

a) **Worker Protection Standards, Construction Industry**
OSHA 29 CFR 1926.1101

b) **Worker Protection Standards, General Industry**
OSHA 29 CFR 1910.1001

c) **Federal Asbestos Abatement Regulations**
EPA NESHAP 40 CFR 61 Subpart M

d) **Federal Asbestos Regulations**
EPA AHERA 40 CFR Part 763

e) **Asbestos Worker Protection Rule**
EPA AHERA 40 CFR Part 763, Subpart G

These regulations, combined with the OSHA and EPA mandated training, are designed to protect workers and control the disturbance/release of airborne asbestos, materials, and debris into the environment.

2.1 Class I Removal Work (Pipe Insulation, Pipe Fittings, Tank Insulation, Boiler Insulation, Fireproofing, etc.)

It is recommended that this type of asbestos removal work be contracted out to professional, licensed asbestos abatement contractors.

2.2 Class II Removal Work (Floor Tile and Mastics, Wallboard and Joint Compounds, Sheet Flooring, Roofing, Transite and Gaskets, etc.)

It is recommended that this type of work by conducted by 32-hour trained personnel overseen by a 40-hour trained supervisor.

The following are general requirements for the removal of these materials:
a) Supervision by a Competent Person as defined by OSHA.
b) Critical barriers covering all openings in the regulated area.
c) Polyethylene sheeting (6-mil) covering all surfaces beneath the removal area.
d) HEPA filtration with local exhaust to the building exterior.
e) Enclosure or isolation of the work area.
f) Wet removal methods wherever feasible.
g) Removal by non-aggressive (non-mechanical) means.
h) Waste double-bagged in 6-mil polyethylene sheeting and labeled with Generator and DOT labels.

2.3 Class III Removal Work - Small-Scale, Short-Duration Operations, and Maintenance and Repair (O&M) Activities.

This work must be conducted by personnel with a minimum of 16-hour O&M training. Small-scale, short-duration is generally defined as removal of a quantity of ACM equal to or less than that which can be removed with a single glovebag, or, 3 square feet or 3 lineal feet.

Small-scale, short-duration renovation and maintenance activities are tasks such as, but not limited to:

a) Removal of small quantities of asbestos-containing insulation on pipes or tanks.
b) Removal of small quantities of asbestos-containing fireproofing on beams or above ceilings.
c) Replacement of an asbestos-containing gasket on a valve.
d) Installation or removal of a small section of drywall.
e) Installation of electrical conduits through or in close proximity to ACM.
f) Installation or removal of a small section of floor tile and mastic.
g) Maintenance on asbestos-containing or presumed asbestos-containing fire doors.

Refer to Section 4.7 for procedures for Class III O&M activities.

2.4 Class IV Removal Work - Maintenance and custodial construction activities during which employees contact, but do not disturb ACM or PACM.

a) This work shall be conducted by employees trained to the asbestos awareness level or greater.

b) Employees who clean up debris shall assume the debris contains asbestos if the debris is located in areas of accessible thermal system insulation and/or surfacing material. All clean up of debris containing or presumed as ACM, shall be done promptly using wet methods and HEPA vacuums.

c) Employees cleaning up debris and waste in a regulated area where respirators are required shall wear respirators which are selected based upon hazard level, used, and fitted in accordance with OSHA and National Institute for Occupational Safety and Health (NIOSH).

3.0 SPECIFIC PROCEDURES FOR THE MAINTENANCE OF ASBESTOS-CONTAINING FLOOR TILE

a) All floor tiles, 9”x 9” and 12”x 12”, must be assumed to be asbestos-containing unless proven otherwise. Only if testing has determined floor tiles to be non-asbestos-containing may they be handled by non-certified persons.

b) Under no circumstances should broken or crumbled asbestos tiles be swept or cleaned up by non-certified maintenance or custodial persons. The GSA Asbestos Program Manager should be contacted to arrange for the cleanup of any asbestos-containing tile.

c) There is generally not a hazard associated with asbestos-containing tile that is cracked as long as it is still properly adhered to the floor. However, the condition of cracked asbestos-containing tile should be monitored closely.

d) If asbestos-containing tiles are delaminating or are loose, they may be re-glued. Depending on the situation and condition of the tile, tiles needing to be removed/disposed of should be handled by asbestos trained personnel.

e) No buffing shall be performed on asbestos-containing tiles that have not been sealed or finished in some manner. Dry buffing shall be performed only after sufficient coats of sealer or finish have been applied to protect the tile from being disturbed. Use the least abrasive pad possible to protect against breaking through the finish and disturbing the surface of the tile.

f) If during buffing, asbestos floor tile is dislodged or broken, stop work and contact the Asbestos Program Manager immediately to schedule the proper clean up of the tile.

g) Stripping of asbestos-containing floor tile shall be done wet. At no time will dry stripping be allowed. If during the stripping procedure the asbestos-containing tiles become dislodged, stop the procedure and notify the Asbestos Program Manager immediately.

h) During buffing or stripping of asbestos-containing floor tiles, the least abrasive pad should be used at a speed of no greater than 300 rpm.

4.0 PROCEDURES FOR CLASS III O&M ACTIVITIES

a) The first step in preparing to perform a small-scale, short-duration O&M task, regardless of the method that will be used, is the removal of all movable objects from the work area to protect them from asbestos contamination. If objects have already been contaminated, they should be thoroughly cleaned with a HEPA filtered vacuum or be wet-wiped before they are removed from the work area. Objects that cannot be removed should be thoroughly cleaned with a HEPA filtered vacuum or be wet-wiped and covered completely with 6-mil-thick polyethylene plastic sheeting before the task begins.

b) Install critical barriers covering all openings in the regulated area.

c) Place polyethylene sheeting (6-mil) covering all surfaces beneath the removal area.

d) Install HEPA filtration with local exhaust to the building exterior if feasible. If using a mini-containment, a hepa-vacuum may be adequate to supply negative pressure.

e) Ensure enclosure or isolation of the work area.

f) The work shall be performed using wet methods.

g) Where the disturbance involves drilling, cutting, abrading, sanding, chipping, breaking, or sawing of thermal system insulation or surfacing material, the employer shall use impermeable dropcloths, and shall isolate the operation using mini-enclosures or glove bag systems or another isolation method.

h) Employees performing Class III jobs shall wear respirators which are selected based upon hazard level, and used, fitted in accordance with OSHA and NIOSH, whenever there is disturbance of thermal system insulation or surfacing material, or where the employer does not produce a “negative exposure assessment” or where monitoring results show a Permissible Exposure Limit (PEL) or Excursion Limit has been exceeded.

4.1 Wet methods

Whenever feasible, and regardless of the abatement method to be used (e.g., removal, enclosure, use of glove bags), wet methods must be used during small-scale, short-duration maintenance and renovation activities that involve disturbing ACM. Handling ACM wet is one of the most reliable methods of minimizing the potential for asbestos fibers to become airborne. Wet methods can be used in the great majority of workplace situations. Only in cases where asbestos work must be performed on live electrical equipment, on live steam lines, or in other areas where water will seriously damage materials or equipment may dry removal be performed. Amended water or another wetting agent should be applied by means of an airless sprayer to minimize the extent to which the ACM is disturbed. ACM should be wetted at the initiation of the maintenance or renovation operation, and continually throughout the work period to ensure that any dry ACM exposed in the course of the work remains wet until final disposal.

4.2 Removal or repair of small quantities of ACM.

Several methods can be used to remove or repair small amounts of ACM during O&M tasks. These include the use of glove bags and the construction of mini-enclosures. The procedures that employers must use for each of these operations are described in the following sections.

4.3 Glove bags

Glove bags for O&M activities are approximately 40-inch-wide by 64-inch-long bags fitted with arms through which the work can be performed. When properly installed and used, they permit workers to remain completely isolated from the asbestos material being removed inside the bag. Glove bags can thus provide a flexible, easily installed, and quickly dismantled temporary small work area enclosure that is ideal for small-scale asbestos renovation or maintenance jobs. These bags are single-use control devices that are disposed of at the end of each task. The bags are made of transparent 6-mil polyethylene plastic with arms of spun-bonded polyolefin material (the same material used to make the disposable protective suits used in major asbestos removal operations and in protective gloves). Glove bags are readily available from safety supply stores or specialty asbestos removal supply houses. Glove bags come pre-labeled with the asbestos warning labels required by OSHA, Department of Transportation (DOT), and EPA for bags used to transport and dispose of asbestos waste.

Supplies and materials that are necessary for the use of glove bags include:

a) Tape to seal glove bag to the area from which asbestos is to be removed.

b) Amended water (water with an added surfactant) or other wetting materials.
c) An airless sprayer for the application of amended water.
d) Bridging encapsulant (a paste-like substance for coating asbestos) to seal the rough edges of any ACM that remains within the glove bag at the points of attachment after the rest of the asbestos has been removed.
e) Tools such as razor knives, nips, and wire brushes (or other tools suitable for cutting wires, etc.).
f) A HEPA filter-equipped vacuum for evacuating the glove bag (to minimize the release of asbestos fibers) during removal of the bag from the work area and for cleaning any material that may have escaped during the installation of the glove bag.
g) HEPA filtered or more protective respirators for use by the employees involved in the removal of asbestos with the glove bag.

Glove bag work practices.

The proper use of glove bags requires the following steps:

i. Glove bags must be installed so that they completely cover the pipe or other structure where asbestos work is to be done. Glove bags are installed by cutting the sides of the glove bag to fit the size of the pipe from which asbestos is to be removed. The glove bag is attached to the pipe by folding the open edges together and securely sealing them with tape. All openings in the glove bag must be sealed with duct tape or equivalent material.

ii. The employee performing the asbestos removal with the glove bag must don at least a half face HEPA-equipped respirator. Respirators must be worn by employees who are in close contact with the glove bag and who may thus be exposed as a result of small gaps in the seams of the bag or holes punched through the bag by a razor knife or a piece of wire mesh.

iii. The removed asbestos material from the pipe or other surface must be adequately wetted with amended water applied with an airless sprayer through the precut port provided in most glovebags or applied through a small hole in the bag.

iv. Once the ACM has been adequately wetted, it can be removed from the pipe, beam, or other surface. The tool used to remove the ACM depends on the type of material to be removed. ACM is generally covered with painted canvas and/or wire mesh. Painted canvas can be cut with a razor knife and peeled away from the ACM underneath. Once the canvas has been peeled away, the ACM underneath may be dry, in which case it should be re-sprayed with amended water to ensure that it generates as little dust as possible when removed. If the ACM is covered with wire mesh, the mesh should be cut with nips, tin snips, or other appropriate tool and removed. Amended water must then be used to spray any layer of dry material that is exposed beneath the mesh, the surface of the stripped underlying structure, and the inside of the glove bag.

v. After removing the layer of ACM, the pipe or surface from which asbestos has been removed must be thoroughly cleaned with a brush and wet-wiped with amended water until no traces of the ACM can be seen.

vi. Any asbestos-containing insulation edges that have been exposed as a result of the removal or maintenance activity must be encapsulated with bridging encapsulant to ensure that the edges do not release asbestos fibers to the atmosphere after the glove bag has been removed.

vii. When the asbestos removal and encapsulation have been completed, a vacuum hose from a HEPA-filtered vacuum must be inserted into the glove bag through the port to remove any air in the bag that may contain asbestos fibers. When the air has been removed from the bag, the bag should be squeezed tightly (as close to the top as possible), twisted, and sealed with tape, to keep the removed materials safely in the bottom of the bag. The HEPA vacuum can then be removed from the bag and the glove bag itself can be removed from the work area to be disposed of properly.

4.4 Mini-Enclosures

In some instances a glove bag may not be either large enough or the proper shape to enclose the work area. In such cases, a mini-enclosure can be built around the area where small-scale, short-duration asbestos maintenance or renovation work is to be performed. Such enclosures should be constructed of 6-mil polyethylene plastic sheeting and be small enough to restrict entry to the asbestos work area to one worker.

For example, a mini-enclosure can be built in a small utility closet when asbestos-containing drywall or drywall joint compound is to be removed. The enclosure is constructed by:

a) Affixing 6-mil polyethylene sheeting to the walls with spray adhesive and tape.

b) Covering the floor with 6-mil polyethylene sheeting and sealing the plastic covering the floor to the outside of the plastic on the walls.

c) Sealing any penetrations such as pipes or electrical conduits with tape; and using a HEPA vacuum to maintain negative pressure inside the work area.

d) Constructing a small change room (approximately 3 feet square) made of 6-mil polyethylene plastic supported by 2-inch by 4-inch lumber (the plastic should be attached to the lumber supports with staples or spray adhesive and tape). The change room should be contiguous to the mini-enclosure, and is necessary to allow the worker to vacuum off his protective coveralls and remove them before leaving the work area. While inside mini-enclosure, the worker should wear spun-bonded polyolefin disposable coveralls and use the appropriate HEPA-filtered or more protective respiratory protection.

e) The advantages of mini-enclosures are that they limit the spread of asbestos contamination, reduce the potential exposure of bystanders and other workers who may be working in adjacent areas, and are quick and easy to install. The disadvantage of mini-enclosures is that they may be too small to contain the equipment necessary to create a negative pressure within the enclosure; however, the double layer of plastic sheeting will serve to restrict the release of asbestos fibers to the area outside the enclosure.

4.5 Removal of small quantities of asbestos insulated pipes or structures

When pipes are insulated with ACM, removal of the entire pipe may be more protective, easier, and more cost effective than stripping the asbestos insulation from the pipe. Before such a pipe is cut, the asbestos-containing insulation must be wrapped with 6-mil polyethylene plastic and securely sealed with duct tape or equivalent. This plastic covering will prevent asbestos fibers from becoming airborne as a result of the vibration created by the power saws used to cut the pipe. If possible, the pipes should be cut at locations that are not insulated to avoid disturbing the asbestos. If a pipe is completely insulated with ACM, small sections should be stripped using the glovebag method described above before the pipe is cut at the stripped sections.

5.0 ENCLOSURE OF ACM

The decision to enclose rather than remove ACM from an area depends on the owner's preference. Owners consider factors such as cost effectiveness, the physical configuration of the work area, and the amount of traffic in the area when determining which abatement method to use. If enclosure is chosen over removal, a solid structure with airtight walls and ceilings must be built around the ACM or structure to prevent the release of asbestos fibers into the area beyond the enclosure and to prevent the disturbance of these materials by casual contact during future maintenance operations.

Such a permanent (i.e., for the life of the building) enclosure should be built of non-asbestos new construction materials and be impact resistant and airtight. Enclosure walls should be made of tongue-and-groove boards, boards with spine joints, or gypsum boards having taped seams. The underlying structure must be able to support the weight of the enclosure. (Suspended ceilings with laid-in panels do not provide airtight enclosures and should not be used to enclose structures covered with ACM). All joints between the walls and ceiling of the enclosure should be caulked to prevent the escape of asbestos fibers. During the installation of enclosures, tools that are used (such as drills or rivet tools) should be equipped with HEPA-filtered vacuums. Before constructing the enclosure, all electrical conduits, telephone lines, recessed lights, and pipes in the area to be enclosed should be moved to ensure that the enclosure would not have to be re-opened later for routine or emergency maintenance. If such lights or other equipment cannot be moved to a new location for logistic reasons, or if moving them will disturb the ACM, removal rather than enclosure of the ACM is the appropriate control method to use.

6.0 OPERATIONS AND MAINTENANCE (O&M) PROGRAM FOR ACM

An asbestos O&M program should be initiated in all facilities that have ACM and/or assumed ACM. Such a program should include:

a) Development of an inventory of all ACM in the facility.
b) Periodic examination of all ACM to detect deterioration.
c) Written procedures for handling ACM during the performance of small-scale, short-duration maintenance and renovation activities.
d) Written procedures for asbestos disposal.
e) Written procedures for dealing with asbestos-related emergencies.
f) Training of staff in safe work procedures.

6.1 Maintenance program for Fire Doors

The following procedures provide general guidance for the maintenance of untested, presumed asbestos-containing fire doors.

a) Compliance with OSHA, State, and EPA-AHERA regulations require that comprehensive asbestos inspections be completed prior to any renovation or demolition activities in order to protect occupant and worker health. Any service to a presumed asbestos-containing fire door that could potentially disturb the core (i.e. drilling or cutting into the core,) qualifies as repair or maintenance and requires characterization for the presence of asbestos.

b) In order to comply with the above referenced regulations, employees (i.e custodians, locksmiths, etc.) or outside contractors will not conduct any activity on presumed fire doors that involves drilling, cutting, abrading, or any other disturbance of the core until the presence or absence of asbestos can be verified.

c) The presence of asbestos cannot be verified by the appearance of the door, nor does the age of the door necessarily indicate whether the door contains asbestos. In the event that a suspect fire door must be serviced and that service may disturb the core of the door, one of the following steps should be followed:

    i. Presume that the door contains asbestos.
    ii. Examine the plate or label on the door spine. The door core material may be listed on this plate. The information on the plate may be used to confirm the presence of asbestos, but the plate alone is not sufficient to determine that asbestos is not present.
    iii. Contact the manufacturer for information on materials used for construction.
    iv. Have a licensed asbestos inspector sample the door core material in an appropriate manner for the presence of asbestos.

d) If the doors are asbestos-containing or presumed to contain asbestos, the removal of the door must be conducted by a qualified abatement contractor. Doors containing asbestos

or presumed to contain asbestos must be disposed of in an appropriate landfill, and cannot be disposed of as normal waste.

e) If GSA personnel intend to service asbestos-containing or presumed asbestos-containing fire doors, this would be considered a Class III work activity, requiring 16 hours of O&M training, proper equipment, proper PPE (personal protective equipment), and disposal.

6.2 Removal Procedures for Specific Materials

6.2.1Non-Friable Flooring Materials

The following procedures shall be used to remove ACM flooring materials:

a) Isolate or shut down, lock-out and tag-out HVAC system (and other building systems that may create a hazard during the removal activity) in compliance with all local, state, and federal regulations and as specified in the Specification/Work Plan.
b) Regulate and isolate the work area with warning signs, barrier tape, and critical barriers in compliance with all local, state, and federal regulations and as specified in the Specification/Work Plan.
c) Upon approval of the work site preparation by consultant or delegated authority, contractor may proceed to remove the material using the below listed procedures.
d) Place tools, equipment and materials needed in work area.
e) Spray amended water onto ACM prior to start of removal.
f) Do not cut, abrade, or break ACM.
g) Dry sweeping is prohibited.
h) All scraping of residual adhesive and/or backing shall be performed using wet methods.
i) Removal of flooring by mechanical means is prohibited.
j) Tiles shall be removed intact, unless intact removal is not possible.
k) When tiles are heated and can be removed intact, wetting may be omitted
l) Do not allow ACM to drop from elevated heights. Always carry disposal bag to the ground; do not drop.
m) If material can cut through the disposal bags, place ACM into one 6 mil bag and then into barrels or fiber drums.
n) Clean up any debris or dust using HEPA vacuuming and wet wiping.
o) Notify consultant or delegated authority that work is complete so that a visual inspection and any clearance air monitoring can be conducted if required.
p) Upon passage of the visual inspection and clearance air monitoring (if conducted), warning signs, barrier tape, and critical barriers may be removed.

6.2.2 Miscellaneous Non-Friable Materials

The following procedures shall be used to remove other non-friable ACM:

a) Isolate or shut down, lock-out and tag-out HVAC system (and other building systems that may create a hazard during the removal activity) in compliance with all local, state, and federal regulations and as specified in the Specification/Work Plan.

b) Regulate and isolate the work area with warning signs, barrier tape, and critical barriers in compliance with all local, state, and federal regulations and as specified in the Specification/Work Plan.
c) Upon approval of the work site preparation by consultant or delegated authority, contractor may proceed to remove the material using the below listed procedures.
d) Put down polyethylene drop cloth below removal area to catch any debris generated during removal.
e) Place tools, equipment and materials needed in work area.
f) Spray amended water ACM prior to start of removal.
g) Do not cut, abrade, or break ACM.
h) Do not allow ACM to drop from elevated heights. Always carry disposal bag to the ground, do not drop.
i) If material can cut through the disposal bags, place ACM into one 6 mil bag and then into barrels for fiber drums.
j) Clean up any debris or dust using HEPA vacuuming and wet wiping.
k) Notify consultant or delegated authority that work is complete so that a visual inspection and any clearance air monitoring can be conducted.
l) Upon passage of the visual inspection and clearance air monitoring (if conducted), warning signs, barrier tape, and critical barriers may be removed.

6.2.3 Miscellaneous Friable Materials

The following procedures shall be used to remove friable ACM:

a) Isolate or shut down, lock-out and tag-out HVAC system (and other building systems that may create a hazard during the removal activity) in compliance with all local, state, and federal regulations and as specified in the Specification/Work Plan.
b) Regulate and isolate the work area with warning signs, barrier tape, and critical barriers in compliance with all local, state, and federal regulations called out in the Specification/Work Plan.
c) Set up a negative pressure enclosure around the work area in compliance with all local, state, and federal regulations and as specified in the Specification/Work Plan.
d) Construct hygiene facilities with an equipment room; shower area; clean change room; lunch areas; decontamination of workers, equipment and containers in compliance with all local, state, and federal regulations and as specified in this Specification/Work Plan.
e) Upon approval of the work site preparation by consultant or delegated authority, contractor may proceed to remove the material using the below listed procedures.
f) Place tools, equipment and materials needed into enclosure.
g) HEPA vacuum the work area.
h) Thoroughly wet the asbestos-containing material to be removed to reduce fiber dispersal into the air. Accomplish wetting by a fine spray (mist) of amended water. Saturate material sufficiently to wet to the substrate without causing excess dripping. Allow time for water to penetrate material thoroughly. Spray material repeatedly with amended water during the work process to maintain a continuously wet condition.
i) Mist work area continuously with amended water whenever necessary to reduce airborne fiber levels using commercially available "foggers."

j) Remove saturated asbestos-containing material in small sections from all areas. Do not allow material to dry out. As it is removed, simultaneously pack material while still wet into disposal bags. Twist neck of bags, bend over and seal with minimum three wraps of duct tape. Clean outside and move to wash down station adjacent to material decontamination unit.
k) Pick up any debris and place into disposal bags. HEPA vacuum and wet wipe any dust generated.
l) Allow the owner or the owner's representative the opportunity to conduct a visual inspection of the work area.
m) Use nylon brushes and wet rags to clean any residual asbestos-containing material from the area. Lightly mist with a lock-down encapsulant the area where the material was removed and 6inches to 12 inches around the area. This will lock down any fibers which may have settled onto the vicinity adjacent to the work area. The HEPA vacuum should be continuously running during the final cleaning and encapsulating work.
n) Notify consultant or delegated authority that work is complete so that a visual inspection and any clearance air monitoring can be conducted.
o) Upon passage of the visual inspection and clearance air monitoring (if conducted), warning signs, barrier tape, mini-containment and critical barriers may be removed.
p) Attach appropriate asbestos warning labels to the outside of the second layer of wrapping and properly dispose of material as friable ACM waste.

7.0 PROHIBITED ACTIVITIES

The training program for the maintenance and custodial staff should describe methods of handling ACM, as well as routine maintenance activities that are prohibited when ACM is involved.

For example, maintenance staff employees should be instructed:

a) Not to drill holes in ACM.
b) Not to hang plants or pictures on structures covered with ACM.
c) Not to sand ACM including floor tile. Stripping of floor tile finishes shall be conducted using low abrasion pads at speeds lower than 300 rpm with wet methods.
d) Not to damage ACM while moving furniture or other objects.
e) Not to install curtains, drapes, or dividers in such a way that they damage ACM.
f) Not to dust floors, ceilings, moldings or other surfaces in asbestos-contaminated environments with a dry brush or sweep with a dry broom.
g) Not to use an ordinary vacuum to clean up asbestos-containing debris.
h) Not to remove ceiling tiles from below ACM without the use of proper respiratory protection, clearing the area of other people, and observing asbestos removal waste disposal procedures.
i) Not to shake ventilation filters that are contaminated with ACM.
j) Not to remove contaminated ventilation filters dry.

Appendix E

Training Requirements

TRAINING REQUIREMENTS

Proper employee training is a vital element in worker protection. The work practices described in this plan should be implemented in conjunction with proper worker training. EPA Asbestos Worker Protection Rules [40 CFR Part 763, Subpart G], EPA Asbestos Model Accreditation Plan [40 CFR 763], OSHA Construction Standard [Title 29, CFR 1926.1101], and OSHA General Industry Standard [Title 29, CFR 1910.1001] require various levels of training depending on the work practices involved; and cross-reference each other in specifying training requirements. In general, the requirements outlined in the EPA Asbestos Model Accreditation Plan provide the type, duration, and topics to be covered for various classes of training. The following is a list of pertinent training that asbestos workers or contractors should receive prior to performing work that may disturb ACM.

- **Asbestos Contractor/Supervisor**: Personnel who supervise Class I and II asbestos work must complete 40 hours of asbestos contractor/supervisor training. An eight hour refresher course is required annually for certification to be maintained.

- **Asbestos Abatement Worker**: Thirty-two hours of training must be completed by personnel who perform Class I, and in some circumstances, Class II asbestos work. Class I and II asbestos work includes removal or encapsulation of ACM where the sole intent of a project being performed is to abate asbestos. An eight hour refresher course is required annually to maintain certification.

- **Operations and Maintenance**: Sixteen hours of training shall be completed by personnel who perform Class III asbestos work. Annual refresher training is required, but no minimum number of hours is specified. The "competent person" determines the level of training required for personnel performing O&M work. A competent person is defined by OSHA as “one who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f): in addition, for Class I and Class II work who is specially trained in a training course which meets the criteria of EPA's Model Accreditation Plan (40 CFR 763) for supervisor, or its equivalent and, for Class III and Class IV work, who is trained in a manner consistent with EPA requirements for training of local education agency maintenance and custodial staff as set forth at 40 CFR 763.92 (a)(2).”

- **General Awareness**: Two hours of training must be completed by personnel who perform Class IV asbestos work and maintenance and custodial staff who work in buildings containing ACM. Annual refresher training is required, but no minimum number of hours is specified.

The amount and content of worker training must meet OSHA and EPA minimum requirements. General subject areas that all O&M training should include: personal protective equipment and respirator training where applicable; health risks associated with asbestos exposures; and the importance of carefully adhering to building O&M programs.

The 16-hour Operations & Maintenance training should emphasize hands-on removal, maintenance, and repair methods. The workers should learn how to use the O&M plan and how to perform specific tasks including glovebag removal methods and constructing negative pressure mini-enclosures.

Appendix F

PPE Requirements

PERSONAL PROTECTIVE EQUIPMENT

PROTECTIVE CLOTHING

1. GSA shall provide or require the use of protective clothing, such as coveralls or similar whole-body clothing, head coverings, gloves, and foot coverings for any employee exposed to airborne concentrations of asbestos that exceed the permissible exposure limit (PEL) and/or excursion limit prescribed in 29 CFR 1926.1101. The above statement also applies to all employees for whom a required negative exposure assessment has not been produced, and for any employee performing Class I operations which involve the removal of > 25 linear or 10 square feet of TSI or surfacing ACM or PACM.

2. GSA shall prohibit the removal of asbestos from protective clothing and equipment by blowing, shaking, or brushing.

3. Laundering.
   a) The employer shall ensure the laundering of contaminated clothing so as to prevent release of airborne asbestos in excess of the PEL or excursion limit prescribed in 29 CFR 1926.1101.
   b) Any employer who gives contaminated clothing to another person for laundering shall inform such person of the contamination to avoid the release of airborne asbestos in excess of the PEL and excursion limit prescribed in 29 CFR 1926.1101.
   c) Contaminated clothing shall be transported in sealed impermeable bags, or other closed, impermeable containers, and be labeled in accordance with 29 CFR 1926.1101.

4. Inspection of protective clothing.
   a) The competent person shall examine worksuits worn by employees at least once per workshift for rips or tears that may occur during performance of work.
   b) When rips or tears are detected while an employee is working, rips and tears shall be immediately mended, or the worksuit shall be immediately replaced.

RESPIRATORY PROTECTION

Respiratory protection is required under OSHA 1926.1101 any time:

1. Class I asbestos work is undertaken

2. Class II asbestos work is undertaken where the ACM is not removed in a substantially intact state.

3. Class II and III asbestos work which is not performed using wet methods. An example of this would be working around live electrical outlets.

4. Class II and III asbestos work for which a “negative exposure assessment” hasn’t been conducted.

5. Class III asbestos work when TSI or surfacing ACM or PACM is being disturbed.

6. Class IV asbestos work performed in regulated areas where employees performing asbestos work are required to use respirators.

If respiratory protection is required, the GSA must implement a respiratory protection program in accordance OSHA Construction Standard [29 CFR 1926.1101] and Asbestos Worker Protection Rules [40 CFR Part 763, Subpart G].

No employee shall be assigned to asbestos work that requires respirator use if, based on their most recent medical examination, the examining physician determines that the employee will be unable to function normally while using a respirator, or that the safety or health of the employee or other employees will be impaired by the employee's respirator use. Such employees must be assigned to another job or given the opportunity to transfer to a different position that they can perform. For a transfer to occur, it must be with the same employer, in the same geographic area, and with the same seniority, status, rate of pay, and other job benefits the employee had just prior to such transfer.

Respirator Selection

1. The employer shall select the appropriate respirator as specified in the table below.

TABLE 1
RESPIRATORY PROTECTION FOR ASBESTOS FIBERS

AIRBORNE CONCENTRATION OF ASBESTOS OR CONDITION OF USE	REQUIRED RESPIRATOR
Not in excess of 1 f/cc (10 X PEL), or otherwise as required independent of exposure.	Half-mask air purifying respirator other than a disposable respirator, equipped with high-efficiency filters.
Not in excess of 5 f/cc (50 X PEL).	Full facepiece air-purifying respirator equipped with high-efficiency filters.
Not in excess of 100 f/cc (1,000 X PEL).	Any powered air-purifying respirator equipped with high-efficiency filters or any supplied air respirator operated in continuous flow mode.
Not in excess of 100 f/cc (1,000 X PEL).	Full facepiece supplied air respirator operated in pressure-demand mode.
Greater than 100 f/cc (1,000 X PEL) concentration.	Self-contained breathing apparatus (SCBA): Positive Pressure respirator Pressure demand Full facepiece

Note: a. Respirators assigned for high environmental concentrations may be used at lower concentrations, or when required respirator use is independent of concentration.
Note: b. A high-efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.

2. The employer shall provide a tight-fitting powered air-purifying respirator in lieu of any negative-pressure respirator specified in the table above whenever:
   a) An employee chooses to use this type of respirator; and
   b) This respirator will provide adequate protection to the employee.

Appendix G

Medical Surveillance and Fit-Testing Requirements

MEDICAL EXAMINATIONS AND RESPIRATOR FIT-TESTING

GSA shall ensure that all medical examinations and procedures are performed by a licensed physician, and are provided at no cost to the employee and at a reasonable time and place. Also, for employees who are required to wear a tight-fitting respirator, an annual respirator fit-test must be completed.

MEDICAL EXAMINATIONS

The employer shall make available medical examinations and consultations to each employee covered under 29 CFR 1926.1101 on the following schedules:

1. Prior to assignment of the employee to an area where negative- pressure respirators are worn;

2. When the employee is assigned to an area where exposure to asbestos may be at or above the permissible exposure limit for 30 or more days per year, or for employees who engage in Class I, II or III work for a combined total of 30 or more days per year. For either situation, a medical examination must be given within 10 working days following the thirtieth day of exposure. A medical examination must be provided at least annually thereafter.

3. If the examining physician determines that any of the examinations should be provided more frequently than specified, the employer shall provide such examinations to affected employees at the frequencies specified by the physician. GSA shall provide a medical examination at the termination of employment for any employee who has been exposed to airborne concentrations of asbestos at or above the permissible exposure limit and/or excursion limit. The medical examination shall be given within 30 calendar days before or after the date of termination of employment.

RESPIRATOR FIT-TESTING

The employer shall make available to any employee required to use a tight-fitting respirator, a respirator fit-test as outlined by OSHA 29 CFR 1910.134 - Appendix A. The respirator fit-testing procedure includes the following:

1. Fit Testing Procedures -- General Requirements

    a) The test subject shall be allowed to pick the most acceptable respirator from a sufficient number of respirator models and sizes so that the respirator is acceptable to, and correctly fits, the user.

2. Prior to the selection process, the test subject shall be shown how to put on a respirator, how it should be positioned on the face, how to set strap tension and how to determine an acceptable fit. A mirror shall be available to assist the subject in evaluating the fit and positioning of the respirator. This instruction may not constitute the subject's formal training on respirator use, because it is only a review.

3. The test subject shall be informed that he/she is being asked to select the respirator that provides the most acceptable fit. Each respirator represents a different size and shape, and if fitted and used properly, will provide adequate protection.

4. The test subject shall be instructed to hold each chosen facepiece up to the face and eliminate those that obviously do not give an acceptable fit.

5. The more acceptable facepieces are noted in case the one selected proves unacceptable; the most comfortable mask is donned and worn at least five minutes to assess comfort. Assistance in assessing comfort can be given by discussing the points in the following item 6. If the test subject is not familiar with using a particular respirator, the test subject shall be directed to don the mask several times and to adjust the straps each time to become adept at setting proper tension on the straps.

6. Assessment of comfort shall include a review of the following points with the test subject and allowing the test subject adequate time to determine the comfort of the respirator:

   (a) Position of the mask on the nose;

   (b) Room for eye protection;

   (c) Room to talk;

   (d) Position of mask on face and cheeks.

7. The following criteria shall be used to help determine the adequacy of the respirator fit:

   (a) Chin properly placed;

   (b) Adequate strap tension, not overly tightened;

   (c) Fit across nose bridge;

   (d) Respirator of proper size to span distance from nose to chin;

   (e) Tendency of respirator to slip;

   (f) Self-observation in mirror to evaluate fit and respirator position.

8. The test subject shall conduct a user seal check, either the negative and positive pressure seal checks described in Appendix B-1 of this section or those recommended by the respirator manufacturer which provide equivalent protection to the procedures in Appendix B-1. Before conducting the negative and positive pressure checks, the subject shall be told to seat the mask on the face by moving the head from side-to-side and up and down slowly while taking in a few slow deep breaths. Another facepiece shall be selected and retested if the test subject fails the user seal check tests.

9. The test shall not be conducted if there is any hair growth between the skin and the facepiece sealing surface, such as stubble beard growth, beard, mustache or sideburns which cross the respirator sealing surface. Any type of apparel which interferes with a satisfactory fit shall be altered or removed.

10. If a test subject exhibits difficulty in breathing during the tests, she or he shall be referred to a physician or other licensed health care professional, as appropriate, to determine whether the test subject can wear a respirator while performing her or his duties.

11. If the employee finds the fit of the respirator unacceptable, the test subject shall be given the opportunity to select a different respirator and to be retested.

12. Exercise regimen. Prior to the commencement of the fit test, the test subject shall be given a description of the fit test and the test subject's responsibilities during the test procedure. The description of the process shall include a description of the test exercises that the subject will be performing. The respirator to be tested shall be worn for at least 5 minutes before the start of the fit test.

13. The fit test shall be performed while the test subject is wearing any applicable safety equipment that may be worn during actual respirator use which could interfere with respirator fit.

14. Test Exercises.

    (a) Employers must perform the following test exercises for all fit testing methods prescribed:

        i. Normal breathing. In a normal standing position, without talking, the subject shall breathe normally.

        ii. Deep breathing. In a normal standing position, the subject shall breathe slowly and deeply, taking caution so as not to hyperventilate.

        iii. Turning head side to side. Standing in place, the subject shall slowly turn his/her head from side to side between the extreme positions on each side. The head shall be held at each extreme momentarily so the subject can inhale at each side.

        iv. Moving head up and down. Standing in place, the subject shall slowly move his/her head up and down. The subject shall be instructed to inhale in the up position (i.e., when looking toward the ceiling).

        v. Talking. The subject shall talk out loud slowly and loud enough so as to be heard clearly by the test conductor. The subject can read from a prepared text such as the Rainbow Passage, count backward from 100, or recite a memorized poem or song.

Rainbow Passage

When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. The rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch, with its path high above, and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond reach, his friends say he is looking for the pot of gold at the end of the rainbow.

vi. Grimace. The test subject shall grimace by smiling or frowning.

vii. Bending over. The test subject shall bend at the waist as if he/she were to touch his/her toes. Jogging in place shall be substituted for this exercise in those test environments such as shroud type QNFT or QLFT units that do not permit bending over at the waist.

viii. Normal breathing. Same as exercise (1).

(b) Each test exercise shall be performed for one minute except for the grimace exercise which shall be performed for 15 seconds. The test subject shall be questioned by the test conductor regarding the comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of respirator shall be tried. The respirator shall not be adjusted once the fit test exercises begin. Any adjustment voids the test, and the fit test must be repeated.

Appendix H

Emergency Procedures

EMERGENCY PROCEDURES

If a release or suspected release of asbestos fibers occurs, evacuate the area of concern and call the GSA Safety Office:

David Hartshorn at 816-823-2227 or cell # 816-277-5229 or david.hartshorn@gsa.gov
or
Gary Adams at 816-823-1704 or cell # 816-401-6484 or gary.adams@gsa.gov

Clean up of asbestos spills must be performed by specially trained personnel. Proper procedures must be followed to reduce the spread of asbestos fibers after a release has occurred. Depending on the severity of the release, an asbestos contractor may need to be called to conduct the cleanup operation.

Appendix I

Disposal Requirements

ASBESTOS WASTE HANDLING AND DISPOSAL PROCEDURES

GSA shall ensure that all asbestos waste is handled and disposed of by the most appropriate means and using state-of-the-art methods. The applicable regulations that outline such handling and disposal of asbestos can be found in the following regulations:

• Worker Protection Standards, Construction Industry	OSHA 29 CFR 1926.1101
• Worker Protection Standards, General Industry	OSHA 29 CFR 1910.1001
• Federal Asbestos Abatement Regulations	EPA NESHAP 40 CFR 61 Subpart M
• Federal Asbestos Regulations	EPA AHERA 40 CFR Part 763
• Federal Transportation Regulations	DOT 49 CFR Parts 171 and 172

Asbestos Waste Handling

1. There are three basic principles for the packaging of solid asbestos waste:
   a) Maintain Thoroughly Saturated
   b) Must be Completely Sealed
   c) Properly Labeled with OSHA Danger Signs and Generator Labels

2. The three types of packaging for solid asbestos waste are:
   a) Bags: Six-mil minimum - In addition to the requirement for immediate bagging of waste for disposal, it is further recommended that the waste material be double-bagged and sealed in bags specifically designed for asbestos disposal. The bags should be stored in a waste storage area that can be controlled by the workers conducting the removal.
   b) Drums: Metal, fiberglass, or fiber, plastic-lined with tight fitting lid
   c) Wrapped: 2 layers of 6-mil plastic

3. Liquid asbestos waste should be:
   a) Mixed with solid waste (preferred)
   b) Separated into filtered water and solid waste. Filtered water (through a five micron filter) can then be disposed into a sanitary sewer.

4. On-Site Storage Requirements:
   a) Bag Loadout Rooms (during abatement) – separated from work area by control curtain
   b) Locked, labeled barrels – for O&M applications
   c) Outside fully enclosed dumpsters

5. Load-Out Principles:
   a) Remove gross debris from the outside of the waste package in the work area
   b) Pass it through a control curtain
   c) Wear proper PPE as a precaution while handling packages outside the work area and at the disposal site.

Waste Disposal

1. Vehicle Requirements:
   a) Plastic lined enclosed vehicle (preferred) or cover load with plastic
   b) DOT labels on the waste shipping containers
   c) Clean vehicle when through with disposal
   d) Vehicle marked with danger sign (NESHAPS) during loading and unloading
   e) Trained and/or licensed waste hauler or escorts as required by state regulations

2. Landfill Disposal:
   a) Notification and prior permission is normally required. State and local regulation control.
   b) Non-friable ACM that will not be rendered friable during removal may be able to be disposed as normal construction debris in certain areas.
   c) Carefully remove ACM containers from transport vehicle
   d) The landfill is required to cover the ACM within 24 hours with 6 inched of non-asbestos material.
   e) A special area should be set aside in the landfill for asbestos
   f) A disposal manifest is required and must be kept a minimum of two years

Appendix J

Inspection Protocol

ASBESTOS INSPECTION PROTOCOL

The following outlines the procedures and protocols that were utilized by representatives of OCCU-TEC while conducting asbestos inspections of GSA managed facilities.

GENERAL

1. The inspection was conducted by an accredited inspector.

2. The inspector:

    a) Visually inspected the area to identify the locations of suspected asbestos-containing building material (ACBM).

    b) Touched all suspected ACBM to determine friability.

    c) Identified all homogeneous materials of suspected friable and nonfriable ACBM.

    d) Sampled each identified homogeneous material in accordance with 29 CFR 1910.1001 pursuant to the requirements of 40 CFR 763.86, or assumed the material to be an ACBM.

    e) Assessed each identified homogeneous material in each functional space in accordance with 29 CFR 1910.1001 pursuant to the requirements of 40 CFR 763.88.

    f) Recorded the following information:

        i. The date of the inspection, the name and signature of the person(s) performing the inspection, and the inspector accreditation number.

        ii. An inventory of the locations of the homogeneous materials where samples are collected, exact location where each bulk sample was collected, dates that samples were collected, and homogeneous materials where suspected ACBM is assumed to be asbestos-containing material (ACM).

        iii. A description of the manner used to determine sampling locations, the name and signature of each inspector who collected the samples, and accreditation number.

        iv. A list of homogeneous materials identified as surfacing material, thermal system insulation, or miscellaneous material.

        v. Assessments made of material, the name and signature of each inspector who made the assessments and accreditation number.

SAMPLING OF SUSPECT MATERIAL

1. Surfacing Material.

    a) The inspector collected samples in a discrete and random manner that is representative of the homogeneous material.

    b) As per AHERA 40 CFR 763.86, bulk samples were collected from each homogeneous material following protocol for surfacing materials (3-5-7 rule).

2. Thermal System Insulation.

    a) When possible, samples were collected from damaged areas of the thermal system insulation. If damaged areas were not available, the material was sampled in areas that would be subjected to the least amount of disturbance.

    b) At least three bulk samples were collected from each homogeneous material of thermal system insulation not assumed to be ACM.

    c) One bulk sample was collected from each homogeneous material of patched (less than six linear or square feet) thermal system insulation not assumed to be ACM.

    d) A minimum of one sample or a sufficient number to determine the presence of asbestos was collected from pipe fittings.

    e) Homogeneous areas the inspector determined to be fiberglass, foam glass, rubber, or other non-ACBM were not sampled.

3. Miscellaneous Materials.

    a) A minimum of one bulk sample was collected from each homogeneous area.

ASSESSMENT OF SUSPECT MATERIALS

1. The inspector recorded a written assessment of all known or assumed ACBM in the property.

2. The name, signature, and accreditation number is included in the report.

3. The assessment included the following considerations:

    a) Location and the amount of material, both in total quantity and as a percentage of the functional space.

    b) Condition of the material, specifying:

i. Type of damage or significant damage (e.g. contact, vibration, and/or air erosion).

ii. Severity of damage (e.g. major flaking, severely torn jackets, as opposed to occasional flaking, minor tears to jackets).

iii. Extent of spread of damage over large areas or large percentages of the homogeneous area.

c) Whether the material is accessible.

d) The material's potential for disturbance.

SAMPLING METHODOLOGY

OCCU-TEC identified and sampled suspect ACBM, using state-of-the-art sampling protocols in accordance with all applicable local, state, and federal regulations. The suspect ACBMs were separated into homogenous materials, and sampled accordingly.

BULK SAMPLE ANALYSIS

The bulk samples were submitted to a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory, via delivery service, for analysis. The National Institute of Standards and Technology (NIST) accredits labs under NVLAP. Each bulk sample was analyzed by polarized light microscopy (PLM) using the dispersion staining technique, as set forth in 40 CFR 763, Subpart E, Appendix E, *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*.

A material is considered to be an ACM if at least one sample collected from the homogenous material showed asbestos present in an amount greater than one percent (1%), which is in accordance with the definition of ACM as per AHERA.

Appendix K

Lab Result Reports

September 29, 2010

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Suite 230
Kansas City, MO 64120-

Bureau Veritas Work Order No. A1009252

Reference: WORD PARKWAY FEDERAL BUILDING (M00134)

Dear Jeff Smith:

Bureau Veritas North America, Inc. received 29 samples on 9/27/2010 10:07:37 AM and reported on 9/29/2010 2:11:42 PM for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a thirty-day holding period, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

(b) (6)

Alan M. Segrave, P.G.
Director, Laboratory Services

Bureau Veritas North America, Inc.

Health, Safety, and Environmental Services
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144

Main: (770) 499-7701
Fax: (770) 499-7511
www us bureauveritas com

CASE NARRATIVE

Date: *29-Sep-10*

CLIENT: OCCU-TEC INC.

Project: WORD PARKWAY FEDERAL BUILDING (M00134)

Work Order No A1009252 **Report Date:** 29-Sep-10

ANALYTICAL METHOD FOR ASBESTOS IN BULK SAMPLES USING POLARIZED LIGHT MICROSCOPY (PLM)

Use of EPA/600/R-93/116 satisfies applicable requirements of the USEPA's "Interim Method for the Determination of Asbestos in Bulk Insulation Sample", EPA-600/M4-82-020, December 1982, published as Appendix E to Subpart E of 40CFR763. Bulk samples analyzed by New York State methods follow stratified point counting methods (198.1) or Method 198.6 for PLM non-friable organically bound materials (NYSDOH Lab Code –11645). Percentages are visual estimations of asbestos >10:1 aspect ratio. The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed. NESHAP requires point counting of a bulk sample when the result is <10% by a method other than point counting. EPA, however states that if 3 mounts of the sample are analyzed and the asbestos percentage is <10% by visual estimation, the client may elect to assume the amount to be greater than 1% or require verification by point counting. If the result by point counting is different than the result obtained by visual estimation, the point count result will be used. Sample friability or non-friability noted on the report is a requirement for the State of California and refers only to the condition of the sample under macroscopic examination. It does not imply friability or non-friability for the sample as collected or observed in the field as determined by the person collecting the sample. The Kennesaw, Georgia lab is accredited by NVLAP –Lab Code 101125-0.

(a)Polarized- light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. When analysis of such materials by PLM yields results negative for the presence of asbestos, Bureau Veritas recommends utilizing quantitative transmission electron microscopy (TEM). For more information, contact the laboratory.

References

McCrone, Walter C. 1980. The Asbestos Particle Atlas. Ann Arbor, MI: Ann Arbor Science Publishers, Inc.

United States Environmental Protection Agency. Environmental Monitoring Systems Laboratory. 1982. Interim Method for the Determination of Asbestos in Bulk Insulation Samples. EPA-600/M4-82-020. Washington: GPO, December.

United States Environmental Protection Agency. Method for the Determination of Asbestos in Bulk

Building Materials. EPA-600/R-93/116, July 1993 (PLM)

Fed. Reg. Vol. 55, No.224, 11/20/90, p.48415 (NESHAP)
EPA Memorandum 5/8/1991 –NESHAP Clarifications

NYSDOH Methods 198.1/198.6

ANALYTICAL RESULTS

Date: *29-Sep-10*

CLIENT: OCCU-TEC INC.
Sample Type: Bulk
Work Order No.: A1009252
Date Received: 9/27/2010
Client Reference: WORD PARKWAY FEDERAL BUILDING (M00134)
Report Date: 29-Sep-10
Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
001A	***DW/DC-01-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology		Asbestos	%	Other Fibers	%	Particulate
(1)	50	Homogeneous	White Joint Compound	None Detected		Non-Detected		Binder/Filler
(2)	50	Homogeneous	Off-White Drywall	None Detected		Cellulose fiber	10%	Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
002A	***DW/DC-01-02***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology		Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous	White Drywall	None Detected		Cellulose fiber	10%	Binder/Filler
						Fibrous glass	10%	

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
003A	***PL-02-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology		Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous	White Plaster	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
004A	***PL-02-02***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology		Asbestos	%	Other Fibers	%	Particulate
(1)	60	Homogeneous	White Plaster	None Detected		Fibrous glass	20%	Binder/Filler
(2)	40	Homogeneous	Tan Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
005A	***BBA-04-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology		Asbestos	%	Other Fibers	%	Particulate
(1)	90	Homogeneous	Tan Baseboard	None Detected		Non-Detected		Binder/Filler
(2)	10	Homogeneous	Yellow Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
006A	***CT-05-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology		Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous	White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
						Mineral wool	35%	Paint
								Perlite

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) 9/29/2010

ANALYTICAL RESULTS

Date: *29-Sep-10*

CLIENT: OCCU-TEC INC.
Sample Type: Bulk
Work Order No.: A1009252
Date Received: 9/27/2010
Client Reference: WORD PARKWAY FEDERAL BUILDING (M00134)
Report Date: 29-Sep-10
Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
007A	***CT-05-02***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	97	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite
(2)	3	Homogeneous Black Plastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
008A	***BBA-06-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	95	Homogeneous Blue Baseboard	None Detected		Non-Detected		Binder/Filler
(2)	3	Homogeneous Tan Mastic	None Detected		Non-Detected		Binder/Filler
(3)	2	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
009A	***BBA-07-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	70	Homogeneous Black Baseboard	None Detected		Non-Detected		Binder/Filler
(2)	28	Homogeneous Tan Mastic	None Detected		Non-Detected		Binder/Filler
(3)	2	Homogeneous White Mineral Mixture	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
010A	***LN-08-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Linoleum	None Detected		Synthetic fiber	20%	Binder/Filler
(2)	2	Homogeneous Yellow Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
011A	***CT-09-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) 9/29/2010

ANALYTICAL RESULTS

Date: *29-Sep-10*

CLIENT: OCCU-TEC INC.
Sample Type: Bulk
Work Order No.: A1009252
Date Received: 9/27/2010
Client Reference: WORD PARKWAY FEDERAL BUILDING (M00134)
Report Date: 29-Sep-10
Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
012A	***CT-09-02***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
013A	***CT-09-03***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
014A	***CT-09-04***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
015A	***CT-09-05***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
016A	***CT-09-06***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) 9/29/2010

ANALYTICAL RESULTS

Date: *29-Sep-10*

CLIENT: OCCU-TEC INC.
Sample Type: Bulk
Work Order No.: A1009252
Date Received: 9/27/2010
Client Reference: WORD PARKWAY FEDERAL BUILDING (M00134)
Report Date: 29-Sep-10
Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
017A	***CT-09-07***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	35%	Binder/Filler
					Mineral wool	35%	Paint
							Perlite

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
018A	***LN-10-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	60	Homogeneous Gray Linoleum	None Detected		Synthetic fiber	20%	Binder/Filler
(2)	40	Homogeneous Yellow Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
019A	***LN-11-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	70	Homogeneous Brown Linoleum	None Detected		Synthetic fiber	20%	Binder/Filler
(2)	30	Homogeneous Yellow Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
020A	***LN-12-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Linoleum	None Detected		Synthetic fiber	20%	Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
021A	***LN-13-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Gray Linoleum	None Detected		Non-Detected		Binder/Filler
(2)	2	Homogeneous White Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
022A	***FS-14-01***	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Red Fire Stop	None Detected		Fibrous glass	10%	Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) 9/29/2010

ANALYTICAL RESULTS

Date: *29-Sep-10*

CLIENT: OCCU-TEC INC. **Sample Type:** Bulk

Work Order No.: A1009252 **Date Received:** 9/27/2010

Client Reference: WORD PARKWAY FEDERAL BUILDING (M00134) **Report Date:** 29-Sep-10

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
023A	SK-15-01	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Sink Undercoating	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
024A	SK-16-01	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Sink Undercoating	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
025A	RT-18-01	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Black Roofing Tar	None Detected		Cellulose fiber	20%	Binder/Filler Tar

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
026A	AS-20-01	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Black Asphalt	None Detected		Fibrous glass	10%	Binder/Filler Tar

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
027A	ST-21-01	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	50	Homogeneous Gray Stair Tread	None Detected		Non-Detected		Binder/Filler
(2)	50	Homogeneous Tan Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
028A	ST-22-01	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	98	Homogeneous Tan Stair Tread	None Detected		Non-Detected		Binder/Filler
(2)	2	Homogeneous Brown Mastic	None Detected		Non-Detected		Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
029A	FTM-23-01	TD	09/14/2010	09/29/2010

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	99	Homogeneous Tan Floor Tile	None Detected		Non-Detected		Binder/Filler
(2)	1	Homogeneous Yellow Mastic	None Detected		Non-Detected		Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) 9/29/2010

Laboratory Limits

Laboratory

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 22.23
1-10	100	+/- 7.41
Trace	100	+/- 1.482

Tiffany Dixon (TD)

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 26.676
1-10	100	+/- 5.928
Trace	100	+/- 1.482

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) 9/29/2010

A1009252

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(847) 726-3322
Fax (847) 726-3325

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Need Results by: Normal
Charges Authorized? ☐ Yes ☐ No
If yes, initial here: ____
☒ Email Results ☐ Fax

JSmith@occutec.com

REPORT RESULTS TO
Name: Jeff Smith
Company: Occu-Tec
Mailing Address: 4151 N Mulberry Drive, Suite 275
City, State, Zip: Kansas City MO
Telephone No.: 816-231-5580 Fax No.: 816-231-5641

Client Job. No.: 90031
Dept.:

INVOICE INFORMATION
☐ PO # ☐ Call for Credit Card Information ☐ Direct Bill
Name: David Hartshorn
Company: GSA
Address: 1500 E Bannister Road
City, State, Zip: Kansas City, MO

Special instructions and/or specific regulatory requirements:
(methods, limit of detection, etc.)
Ward Parkway Federal Building (MO0134)

Soils: Which state are these from?
Waters: ☐ Drinking Water ☐ Groundwater ☐ Wastewater

* Explanation of Preservation:

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a '1' if Preservation added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	Asbestos (PLM)	FOR LAB USE ONLY
DW/DC -01-01 Drywall	9-14-10					X	
-02 "							
PL -02-01 Plaster							
-02 "							
BBA-04-01 - Baseboard							
CT-05-01 Ceiling Tile							
CT-05-02 Ceiling Tile							
BBA-06-01 Baseboard							
BBA-07-01 Baseboard							
LN-08-01 Linoleum							
CT-09-01 Ceiling Tile							
-02 "							

CHAIN OF CUSTODY
Collected by: Joshua Ashley (print) Collector's Signature:
Relinquished: (b) (6) Date/Time: 9-23-10 Received by: Date/Time:
Relinquished: Date/Time: Received by: (b) (6) Date/Time: 9/27/10 1000AM
Method of Shipment: Received at Lab by: Date/Time: 9/24
Authorized by: (b) (6) Date: 9-23-10 Sample Condition (explain): 12336

LABORATORY COPY

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5867
(248) 344-1770
Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 313-7522
(847) 726-4320
Fax (847) 726-4325

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Need Results by: Normal
Charges Authorized? ☐ Yes ☐ No
If yes, initial here:
☒ Email Results ☐ Fax

JSmith@occutec.com

REPORT RESULTS TO
Name: Jeff Smith
Company: Occu-Tec
Mailing Address: 4151 N Mulberry Drive, Suite 275
City, State, Zip: Kansas City MO
Telephone No.: 816-231-5580 Fax No.: 816-231-5641
Client Job. No.: 90031
Dept.:

INVOICE INFORMATION
☐ PO # ☐ Call for Credit Card Information ☐ Direct Bill
Name: David Hartshorn
Company: GSA
Address: 1500 E Bannister Road
City, State, Zip: Kansas City, MO

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.)
Ward Parkway Federal Building (M00134)

Soils: Which state are these from?
Waters: ☐ Drinking Water ☐ Groundwater ☐ Wastewater

Number of Containers

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	Asbestos (PLM)	FOR LAB USE ONLY
CT-09-03 Ceiling Tile	9-14-10					X	
CT-09-04 "	↓					↓	
CT-09-05 "							
CT-09-06 "							
CT-09-07 "							
LN-10-01 Linoleum							
LN-11-01 Linoleum							
LN-12-01 Linoleum							
LN-13-01 Linoleum							
FS-14-01 Fire Stop							
SK-15-01 Sink Undercoat							
SK-16-01 Sink Undercoat							

CHAIN OF CUSTODY

Collected by: Joshua Ashley (print) Collector's Signature:
Relinquished: (b) (6) Date/Time: 9-23-10 Received by: Date/Time:
Relinquished: Date/Time Received by: Date/Time:
Method of Shipment: Received at: Date/Time: 9/24
Authorized by: (b) (6) Date: 9-23-10 Sample Condition (explain): 1236

(b) (6)

Page 2 of 3

LABORATORY COPY

11 of 12

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
Fax (847) 726-3323

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Need Results by: Normal
Charges Authorized? ☐ Yes ☐ No
(if yes, initial here) _____
☒ Email Results ☐ Fax

JSmith@occutec.com

REPORT RESULTS TO
Name: Jeff Smith
Company: Occu-Tec
Mailing Address: 4151 N Mulberry Drive, Suite 275
City, State, Zip: Kansas City MO
Telephone No.: 816-231-5580
Fax No.: 816-231-5641
Client Job. No.: 90031
Dept.:

BILLING INFORMATION
☐ PO # _____ ☐ Call for Credit Card Information ☐ Direct Bill
Name: David Hartshorn
Company: GSA
Address: 1500 E Bannister Road
City, State, Zip: Kansas City, MO

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.)
Ward Parkway Federal Building (MO0134)

Soils: Which state are these from? _____
Waters: ☐ Drinking Water ☐ Groundwater ☐ Wastewater

Number of Containers

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Asbestos (PLM)	FOR LAB USE ONLY
RT-18-01 Roof Tar	9-14-10				X	
AS-20-01 ~~Sheetrock~~ Asphalt						
ST-21-01 Stair Tread						
ST-22-01 Stair Tread						
FTM-23-01 Floor Tile						

* Explanation of Preservation

CHAIN OF CUSTODY
Collected by: Joshua Ashley (print) — Collector's Signature:
Relinquished by: [redacted] — Date/Time 9-23-10 — Received by:
Relinquished by: — Date/Time — Received by: [redacted] — Date/Time 9/24
Method of Shipment: — Received at Lab: — Date/Time
Authorized by: [redacted] — Date 9-23-10 — Sample Condition: (explain) — 1236

Page 3 of 3

LABORATORY COPY

Appendix L

Inspector and Management Planner Accreditation Documentation

Expiration Date: **6/16/2011**

Certificate Number: 7011060310MOIR12619

Training Date: **6/3/2010**

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

Joshua K. Ashley

has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

6/16/2010
Date

(b) (6)

Director of Air Pollution Control Program

CERTIFICATION NUMBER: **7011060310MOIR12619**

THIS CERTIFIES

Joshua K. Ashley

HAS COMPLETED THE CERTIFICATION REQUIREMENTS FOR

Inspector

APPROVED: **6/16/2010**

TRAINING DATE: **6/3/2010**

EXPIRES: **6/16/2011**

Director of Air Pollution Control Program

Expiration Date: **6/3/2011** Certificate Number: 7011060310MOMR2285

Training Date: **6/3/2010**

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

Jeffrey T. Smith

has successfully completed the requirements for certification as a MANAGEMENT PLANNER. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

6/3/2010
Date

(b) (6)

Director of Air Pollution Control Program

CERTIFICATION NUMBER: 7011060310MOMR2285

THIS CERTIFIES

Jeffrey T. Smith

HAS COMPLETED THE CERTIFICATION REQUIREMENTS FOR

Management Planner

APPROVED: 6/3/2010

EXPIRES: 6/3/2011

TRAINING DATE: 6/3/2010

(b) (6)

Appendix M

Glossary of Terms and Definitions

Glossary of Terms

Unless otherwise noted with an asterisk (*), the following definitions contained in this Glossary can be found under 40 CFR § 763.83:

Act means the Toxic Substances Control Act (TSCA), 15 U.S.C. 2601, et seq.

Accessible when referring to asbestos-containing material (ACM) means that the material is subject to disturbance by school building occupants or custodial or maintenance personnel in the course of their normal activities.

Accredited or accreditation when referring to a person or laboratory means that such person or laboratory is accredited in accordance with section 206 of Title II of the Act.

Air erosion means the passage of air over friable asbestos-containing building material (ACBM) which may result in the release of asbestos fibers.

Asbestos means the asbestiform varieties of: Chrysotile (serpentine); crocidolite (riebeckite); amosite; anthophyllite; tremolite; and actinolite.

Asbestos-containing material (ACM) when referring to school buildings means any material or product which contains more than 1 percent asbestos.

Asbestos-containing building material (ACBM) means surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a school building.

Asbestos debris means pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.

Damaged friable miscellaneous ACM means friable miscellaneous ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

Damaged friable surfacing ACM means friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated

water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

Damaged or significantly damaged thermal system insulation ACM means thermal system insulation ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, water-stained, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.

Designated Person means a person appointed by the Local Education Agency (LEA), under 40 CFR §763.84 (g), who is trained to ensure the proper implementation of AHERA in school buildings. *

Encapsulation means the treatment of ACBM with a material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers, as the encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

Enclosure means an airtight, impermeable, permanent barrier around ACBM to prevent the release of asbestos fibers into the air.

Fiber release episode means any uncontrolled or unintentional disturbance of ACBM resulting in visible emission.

Friable when referring to material in a school building means that the material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously nonfriable material after such previously nonfriable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Functional space means a room, group of rooms, or homogeneous area (including crawl spaces or the space between a dropped ceiling and the floor or roof deck above), such as classroom(s), a cafeteria, gymnasium, hallway(s), designated by a person accredited to prepare management plans, design abatement projects, or conduct response actions.

High-efficiency particulate air (HEPA) refers to a filtering system capable of trapping and retaining at least 99.97 percent of all monodispersed particles 0.3 ːm in diameter or larger.

Homogeneous area means an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

Local education agency (LEA) means: (1) Any local educational agency as defined in section 198 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 3381). (2) The owner of any nonpublic, nonprofit elementary, or secondary school building. (3) The governing authority

of any school operated under the defense dependent's education system provided for under the Defense Dependents' Education Act of 1978 (20 U.S.C. 921, et seq.).

Miscellaneous ACM means miscellaneous material that is ACM in a school building.

Miscellaneous material means interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

Nonfriable means material in a school building which when dry may not be crumbled, pulverized, or reduced to powder by hand pressure.

Operations and maintenance program (O&M) means a program of work practices to maintain friable ACBM in good condition, ensure clean up of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACBM disturbance or damage.

Phase contrast microscopy (PCM) refers to the procedure outlined in NIOSH Method 7400 for the evaluation of fibers in air samples.*

Polarized light microscopy (PLM) refers to the method outlined in 40 CFR § 763, Appendix E to Subpart E, for the identification of asbestos in bulk samples.*

Potential damage means circumstances in which: (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. (2) There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

Potential significant damage means circumstances in which: (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. (2) There are indications that there is a reasonable likelihood that the material or its covering will become significantly damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage. (3) The material is subject to major or continuing disturbance, due to factors including, but not limited to, accessibility or, under certain circumstances, vibration or air erosion.

Preventive measures means actions taken to reduce disturbance of ACBM or otherwise eliminate the reasonable likelihood of the material's becoming damaged or significantly damaged.

Removal means the taking out or the stripping of substantially all ACBM from a damaged area, a functional space, or a homogeneous area in a school building.

Repair means returning damaged ACBM to an undamaged condition or to an intact state so as to prevent fiber release.

Response action means a method, including removal, encapsulation, enclosure, repair, operations and maintenance, that protects human health and the environment from friable ACBM.

Routine maintenance area means an area, such as a boiler room or mechanical room, that is not normally frequented by students and in which maintenance employees or contract workers regularly conduct maintenance activities.

School means any elementary or secondary school as defined in section 198 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 2854).

School building means: (1) Any structure suitable for use as a classroom, including a school facility such as a laboratory, library, school eating facility, or facility used for the preparation of food. (2) Any gymnasium or other facility which is specially designed for athletic or recreational activities for an academic course in physical education. (3) Any other facility used for the instruction or housing of students or for the administration of educational or research programs. (4) Any maintenance, storage, or utility facility, including any hallway, essential to the operation of any facility described in this definition of "school building" under paragraphs (1), (2), or (3). (5) Any portico or covered exterior hallway or walkway. (6) Any exterior portion of a mechanical system used to condition interior space.

Significantly damaged friable miscellaneous ACM means damaged friable miscellaneous ACM where the damage is extensive and severe.

Significantly damaged friable surfacing ACM means damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

State means a State, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the Northern Marianas, the Trust Territory of the Pacific Islands, and the Virgin Islands.

Surfacing ACM means surfacing material that is ACM.

Surfacing material means material in a school building that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Thermal system insulation (TSI) means material in a school building applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

Thermal system insulation ACM means thermal system insulation that is ACM.

Transmission electron microscopy (TEM) refers to the method outlined in 40 CFR § 763, Appendix A to Subpart E, for the identification of asbestos in air samples.*

Vibration means the periodic motion of friable ACBM which may result in the release of asbestos fibers.

Common Acronyms

ACM - Asbestos-containing material
ACBM - Asbestos-containing building material
AHERA - Asbestos Hazard Emergency Response Act
DOT - Department of Transportation
DP - AHERA Designated Person
EPA - U.S. Environmental Protection Agency
HEPA - High-efficiency particulate air
LEA - Local Education Agency
NIOSH - National Institute for Occupational Safety and Health
NIST - National Institute of Standards and Technology
NVLAP - National Voluntary Laboratory Accreditation Program
O&M - Operations and maintenance
OSHA - Occupational Safety and Health Administration
PCM - Phase contrast microscopy
PLM - Polarized light microscopy
TEM - Transmission electron microscopy
TSI - Thermal system insulation

STEWART INDUSTRIAL HYGIENE AND SAFETY, INC.

RED BRIDGE PROFESSIONAL PARK INC
400 EAST RED BRIDGE ROAD
KANSAS CITY, MO 64131
PHONE 816-942-2537

ASBESTOS ASSESSMENT

Client GSA

Location 89 Ward Parkway

Bldg. No. _____ Date 6-4-86 Surveyor MDD/CJQ

Sample No. MFB#6 Sample Location Mechanical rm boiler area

Condition of piping, etc. good condition

Estimated pipe size 12" Length throughout Duct n/a

Comments: pipe sealed with tape

Results: UBTL: none detected

Bldg. No. _____ Date 6-4-86 Surveyor MDD/CJQ

Sample No. MFB#7 Sample Location Hallway south entrance

Condition of pipe, etc. n/a

Estimated pipe size n/a Length n/a Duct n/a

Comments: asbestos tile

Results: UBTL: 2-3% chrysotile

Date Sent to Lab 6-13-86 Date Lab Reported Results 7-8-86

STEWART INDUSTRIAL HYGIENE AND SAFETY, INC.

RED BRIDGE PROFESSIONAL BUILDING
400 EAST RED BRIDGE ROAD
KANSAS CITY, MO 64131
PHONE 816-942-0587

ASBESTOS ASSESSMENT

Client GSA

Location 89 Ward Parkway

Bldg. No. _____ Date 6-4-86 Surveyor MDD/CJQ

Sample No. FB-1 Sample Location _____

Condition of piping, etc. Good condition

Estimated pipe size 4" Length throughout Duct n/a

Comments: elbows

Results: UBTL: ≥ 1-2% amosite

Bldg. No. _____ Date _____ Surveyor _____

Sample No. _____ Sample Location _____

Condition of pipe, etc. _____

Estimated pipe size _____ Length _____ Duct _____

Comments: _____

Results: UBTL: _____

Date Sent to Lab 6-13-86 Date Lab Reported Results 7-8-86

STEWART INDUSTRIAL HYGIENE AND SAFETY, INC.

RED BRIDGE PROFESSIONAL BUILDING
400 EAST RED BRIDGE ROAD
KANSAS CITY, MO 64131
PHONE 816-941-0580

ASBESTOS ASSESSMENT

Client GSA

Location 89 Ward Parkway

Bldg. No. FB Date 6-4-86 Surveyor MDD/ CJQ

Sample No. MFB #5 Sample Location Honeywell 680 Rm.

Condition of piping, etc. n/a

Estimated pipe size n/a Length n/a Duct n/a

Comments: Water main was sealed with tape.

Results: UBTL: Elbow T's half inch pipe- present <1% amosite

Bldg. No. FB Date 6-4-86 Surveyor MDD/ CJQ

Sample No. MFB #2 Sample Location Computer Rm.

Condition of pipe, etc. n/a

Estimated pipe size None Present Length n/a Duct n/a

Comments: Sample taken from wall.

Results: UBTL: none detected

Date Sent to Lab 6 -13-86 Date Lab Reported Results 7-8-86

General Services Administration
Federal Building
Kansas City, Missouri

DISCUSSION

June 4th, 1986

Mike Duffey and I arrived at the Federal Bldg. at 0800. The Bldg. size was estimated at approximately 197,644 square feet. We were escorted through the Bldg. by Mr. Lonny Griffin.

We surveyed the coolant unit on the roof of the Bldg. No asbestos was prevalent. The pipes were all securely sealed. A sample was taken from the west tank.

The mechanical room area had 12" inch pipes throughout the Bldg. All the pipes were encapsulated and the pipes were in good condition. The mechanical room boiler room piping was also in good condition.

The tile in the hallway in the south entrance did contain asbestos in the tile. We gathered a sample of the tile in our asbestos assessment.

The machine room had piping estimated approximately 4" inches throughout the room. The northeast machine room was in good condition. It had been remodeled within the past year. A total of eight (8) samples were taken.

Prepared by Carmen Quintero
Reviewed by Albert E. Stewart

UBTL

Form ARF-A
Page 1 of 1
Part 1 of 1

ANALYTICAL REPORT FORM

Date 6/25/86
Agency Identification Number G2069

Rec 7/1/86

Stewart Industrial Hygiene & Safety
400 East Red Bridge Road, Suite 318
Kansas City, MO 64131

Telephone (816) 942-6587

Sampling Collection and Shipment

Sampling Site Federal Building Date of Collection June 06, 1986

Date Samples Received at UBTL June 13, 1986

Analysis

Method of Analysis Polarized Light Microscopy

Date(s) of Analysis 6/24/86

Analytical Results

Field Sample Number	UBTL Lab Number	Sample Type	Chrysotile ASBESTOS (%)	Amosite ASBESTOS (%)
FB #1	CG 12151	BULK	ND	≈1-2%
MFB #2	CG 12152	BULK	ND	ND
MFB #3	CG 12153	BULK	ND	ND
MFB #4	CG 12154	BULK	ND	ND
MFB #5	CG 12155	BULK	ND	<1%
MFB #6	CG 12156	BULK	ND	ND
MFB #7	CG 12157	BULK	2-3%	ND
Limit of Detection				
Limit of Quantitation				

† See comment on last page.
ND Parameter not detected.
< Parameter below LOD.
TBA Parameter to be analyzed.

* Parameter not analyzed (See comment on last page).
( ) Parameter between LOD and LOQ.
– Parameter not requested.

(b) (6)

(b) (6)

STEWART INDUSTRIAL HYGIENE AND SAFETY, INC.

RED BRIDGE PROFESSIONAL BUILDING
400 EAST RED BRIDGE ROAD
KANSAS CITY, MO 64131
PHONE 816-942-0507

ASBESTOS ASSESSMENT

Client GSA

Location 89 Ward Parkway

Bldg. No. 122 Date 6-4-86 Surveyor MDD/CJQ

Sample No. MFB 123 #3 Sample Location Boiler room

Condition of piping, etc. sealed well

Estimated pipe size n/a Length n/a Duct n/a

Comments: n/a

Results: UBTL: none detected

Bldg. No. _____ Date 6-4-86 Surveyor MDD/CJQ

Sample No. MFB 122 #4 Sample Location Solar System room

Condition of pipe, etc. sealed well

Estimated pipe size n/a Length n/a Duct n/a

Comments: _____

Results: UBTL: none detected

Date Sent to Lab 6-13-86 Date Lab Reported Results 7-8-86

UBTL, INC.
520 WAKARA WAY
SALT LAKE CITY,
UTAH 84108
801 / 583-3600

ANALYTICAL REPORT

ANALYSIS OF BULK SAMPLES FOR ASBESTOS

All samples were examined for homogeneity. Non-homogeneous samples were ground to insure homogeneity.

Microscope slides were prepared from each sample using 1.55 refractive index liquid. The slides were then examined for the presence of asbestos utilizing polarized light microscopy and dispersion staining techniques. A phase contrast microscope equipped with a 16x objective and a 10x eyepiece was used for the analysis.

The percentage of asbestos was estimated microscopically by a visual examination of the fibers with an aspect ratio of 3:1 or greater. If present, asbestos identities were confirmed with the appropriate refractive index liquids applying dispersion staining techniques.

The results are tabulated on the following page(s).

Rand Potter

PIPE AND BOILER INSULATION (ACM)

ASSESSMENT FORM

Building Name and Address: Fed Bldg 8930 Ward Parkway KCMo

Location in Building: Room No. throughout

Date of Assessment: 6/4/86

Building Asbestos Record: Yes X No ____

Type of Pipe and Boiler Insulation (ACM):

Pipe Insulation: Water Pipe X Steam Pipe X

Duct Insulation: Duct Wrapping ____ Transite Board ____

Boiler Lagging: ____

Tank Insulation: ____

Elbow Joints: X

Area Around: Valves X Flanges X Other ____

Asbestos Content: 1-3 %

Laboratory Analysis X, Building Record ____

Assumption (when material is in good condition) ____

Type of Asbestos Fibers: chrysotile, amosite

Size of Damaged ACM: Linear Ft. ____ Square Ft. ____

Location Specifics: Mechanical Room: Air Handler Room _____

Boiler Room X

Other _____

Above Suspended Ceiling: Air Plenum _____

Enclosed Space ___

From Floor to Ceiling _____

Stairwell _____

Garage _____

Peripheral HVAC _____

Is the Insulation Wrapping Pink or Yellow? Yes _____ No _____

Current Condition of ACM:

Physical Damage/Deterioration: Major _____ Minor X

None _____

Water Damage/Deterioration: Major ____ Minor X None ____

Friability of Damaged Area: High _____ Low X

Potential for Future Damage, Disturbance, or Erosion:

Accessibility: High ____ Low X

Activity and Movement: High _____ Low X

Activity and Movement: High ____ Low X

Vibration: High _____ Low X

In Direct Air Stream or Plenum: Yes ____ No X

No. of Occupants Affected: (Maintenance or Office Workers) 3-5

Special O/M Program:

Visual Inspection: Semiannual _____ More Frequent _____

Air Monitoring Requirement: Yes _____ No X
(If yes, see para. 32.f.)

Cleaning (initial and semiannual): Wet Mopping _____

Steam Clean _____ HEPA-Vacuuming X

Maintenance: Containment Barrier ___ Worker Protection X

Facility Asbestos Control
Manager Authorization _____

Complete Assessment for
Large Scale Project _____

Abatement Actions:

Removal and Replacement X Encapsulation _____

Enclosure _____

Removal/Replacement As Soon As Possible (for ACM in poor condition and with low or high potential of future damage, disturbance or erosion) _____

Selective or Complete Removal As Soon As Possible (for ACM with minor damage or deterioration and with low or high potential of future damage, disturbance or erosion) _____

Removal, Encapsulation or Enclosure Integrated With Planned Repair and Alteration (for ACM in good condition but with high potential of future damage, disturbance, or erosion) _____

No Further Action Now Beyond Special O/M Program (for ACM in good condition and with low potential of future damage, disturbance, or erosion) X

ASSESSOR: _____ (Signature)

M.E. Grassley (Printed or Typed Name)

TITLE/FIRM: GSA TELEPHONE: 926-5318

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service
Region VIII

Health Unit 40
P.O. Box 25145
Denver Federal Center
Denver, CO 80225-0145

December 15, 1992

Pat Scott
USPHS/FOH/Region VII
1150 Grand Avenue, Suite 800
Kansas City, MO 64106

Dear Ms. Scott:

Attached are the results of the bulk sample materials from 8930 Ward Parkway, Kansas City, MO, submitted to the Division of Federal Employee Occupational Health (DFEOH) National Environmental Reference Laboratory in Denver, Colorado for asbestos identification. These samples were received at our facility on November 22, 1992. The methods used for this evaluation involved stereo and polarized light microscopy (PLM), supplemented with optical dispersion staining techniques developed by the McCrone Research Institute and in compliance with the guidelines established by EPA in its Interim Method for the Determination of Asbestos in Bulk Samples (EPA-600/MA-82-020). The DFEOH laboratory services are currently accredited for bulk asbestos analysis through the EPA Interim Laboratory Accreditation Program for Bulk Asbestos Analysis and by the National Voluntary Laboratory Accreditation Program (NVLAP). Our NVLAP laboratory code number is 1593.

Through the procedures noted above, the sample is separated according to homogeneity and layering and the principal fibrous and non-fibrous components of each sample material are determined. The fibrous components are then classified as either asbestos and non-asbestos and a precentage composition range is determined for each asbestos material identified. A total asbestos content (by volume) for each individual material and the overall/total sample in question is then calculated. Further evaluations are made to determine size and morphology of the asbestos materials identified. For the purposes of this evaluation, asbestos includes: chrysotile, cummingtonite-grunerite (amosite), crocidolite, tremolite, anthophyllite, and actinolite. Asbestos "fibers" for identification purposes are generally classified as particulate matter, which falls within one of the commercial asbestos categories noted above, has physical dimensions longer than 5 micrometers (um), and has a length to diameter ratio of 3 to 1 or greater. Results of these evaluations are listed in Table 1 and are specific for this sample set only.

If you have any question concerning these findings, or if you have additional questions concerning asbestos identification, evaluation, or abatement, please feel free to contact this office at 303/236-0076 or FTS 776-0076. If DFEOH can be of further assistance, please let us know.

ANALYST
(b) (6)
Tim Bergquist
PLM Microscopist

LABORATORY DIRECTOR
(b) (6)
Douglas C. Pickup MS
Certified Industrial Hygienist

TABLE 1

DIVISION OF FEDERAL EMPLOYEE OCCUPATIONAL HEALTH

BULK ASBESTOS ANALYSIS RESULTS

8930 Ward Parkway, Kansas City, MO

PLM LGN 930089

At the request of the client, all samples analyzed with a 1% or less asbestos content will be reported as zero asbestos detected. Some samples with zero asbestos detected could actually contain up to 1% asbestos mineral fiber.

		-------(Estimated % Composition)-------		
SAMPLE DESCRIPTION	ASBESTOS PRESENT	ASBESTIFORM MINERAL FIBERS	OTHER CONSTITUENTS	TOTAL % ASBESTOS
001	No	None Detected		0
002	No	None Detected		0
003	No	None Detected		0
004	No	None Detected		0
005	No	None Detected		0
006	No	None Detected		0
007	No	None Detected		0
008	No	None Detected		0
009	No	None Detected		0
010	Yes	Amosite		3-5
011	No	None Detected		0
032	No	None Detected		0
033	No	None Detected		0
012	No	None Detected		0
013	No	None Detected		0
014	No	None Detected		0

Table 1
(Continued)

SAMPLE DESCRIPTION	ASBESTOS PRESENT	-------(Estimated % Composition---------- ASBESTIFORM MINERAL FIBERS	OTHER CONSTITUENTS	TOTAL % ASBESTOS
015	Yes	Chrysotile	Tile = 5-10% Adhesive = 3-5% Mastic = 2-3%	
016	No	None Detected		0
017	Yes	Amosite		8-10
018	Yes	Amosite 8-10 Chrysotile 8-10		15-20
019	Yes	Amosite		8-10
020	No	None Detected		0
021	No	None Detected		0
022	No	None Detected		0
023	No	None Detected		0
024	Yes	Chrysotile	Tile = 2% Mastic = 20%	
025	No	None Detected		0
026	No	None Detected		0
027	No	None Detected		0
028	No	None Detected		0
029	No	None Detected		0
030	Yes	Amosite		3-5
031	No	None Detected		0

DEC 14 1990

Mr. Everett Asberry
Director, Facility Support Division
United States Department of Agriculture
8930 Ward Parkway
Kansas City, MO 64132

Dear Mr. Asbury

Thank you for the opportunity to review the Asbestos Inspection and Assessment performed at 8930 Ward Parkway, Kansas City, Missouri. The report and associated data appear to be thorough and complete. We agree with the conclusions made and fully support an action plan meeting statutory requirements and General Services Administration's policy.

If you have any questions or need additional information, please contact Kevin Santee at FTS 926-5318.

Sincerely,

/s/ Sharon J. Kersey

James J. Hoover
Director, Real Property Management
and Safety Division
Public Buildings Service (6PM)

cc: Official Files - 6PMS
Reading Files - 6P 6PM
6PMS:K.Phillips:bh:12/11/90:x5318

6PMR

JAN 3 3 52 PM '91
RECEIVED
USA-R&A BRANCH
K.C. MO.

Kevin,
Pat (R+A) gave us this copy for our files.

ASBESTOS INSPECTION SERVICES

AT

USDA/ASCS BUILDING

8930 Ward Parkway

Kansas City, Missouri 64141-0205

Prepared for USDA Facilities

Prepared by

OCCU-TEC Incorporated

6501 E. Commerce Avenue, Suite 208

Kansas City, Missouri 64120

(816) 231-5580

OCCU-TEC Incorporated

(816) 231-5580
1-800-950-1953

6501 E. Commerce Avenue
Suite 208
Kansas City, Missouri 64120

Industrial Hygiene, Safety
& Environmental Consulting

November 24, 1990

Ms. Jeannie Simmons
Facilities, Contracting Officer
USDA, ASCS, KCMO ASD Facilities
8930 Ward Parkway, PO Box 419205
Kansas City, Missouri 64141-0205

RE: Asbestos Inspection of US Dept. of Agriculture, ASCS Building, Purchase Order #43-6453-1-02014

Dear Ms. Simmons:

As authorized by Purchase Order No.43-6453-1-02014, OCCU-TEC, Incorporated, initiated the work contracted for on October 24, 1990. This letter summarizes our work. The attached reports detail our findings.

The U.S. Agriculture Building was inspected for asbestos containing materials (ACM). All of the work was performed in accordance with the October 18, 1990 Letter of Request for Quotatione. Representative samples of all accessible, suspect ACM were obtained and analyzed.

The data indicate that the thermal system insulation (TSI) is generally non-ACM. The 1/2 inch and 3 inch white mudded pipe joints are the only TSI found to contain asbestos. Miscellaneous materials such as 9"x 9" floor tiles, floor tile adhesives and roofing materials are ACM. Other miscellaneous materials such as ceiling tiles are not ACM. None of the materials such as the 12"x 12" floor tile, wall and ceiling plaster were found to contain asbestos.

The attachments are arranged in the following manner:

- Building Summary - Contains a brief description of the building.
- Homogeneous Area Report - Describes and quantifies each homogeneous area of suspect ACM. Identifies the areas that are ACM and those that are not ACM.

Functional Space Report - Lists each functional space within the building and the quantities of each homogeneous area within the functional space. Includes an assessment of the material condition and an assessment code definition sheet.

Bulk Sampling Data Report - Identifies and describes each bulk sample taken. Lists the content and type of asbestos in each sample.

Asbestos Bulk Analysis Laboratory Report - Details the analysis of each sample.

Facility Diagram - Illustrates the building layout and location of each sample.

We appreciate the opportunity to serve the Department of Agriculture and look forward to working with you in the future. If you need additional information, please call.

Sincerely,

(b) (6) [redacted]

Duncan L. Heydon, PIH
Vice President

DLH:sc

Attachments

BUILDING SUMMARY

BUILDING NAME: U.S. Dept of Agriculture ASCS Building

DATE OF INSPECTION: November 9, 1990

INSPECTED BY: R.K. Clifton

COMMENTS: 8930 Ward Parkway is a three story brick building. The first floor contains the building's computer facilities and boiler room as well as the central heating and air conditioning systems. These are located in rooms on the north side, and the northwest and southwest corners. The second and third floors consist of general office space. The building's water systems and additional HVAC systems are located in the middle of the building on all three floors.

SUSPECT ACM ASSESSMENT CODES

DEFINITIONS

1 - Damaged or significantly damaged friable suspect ACM thermal system insulation.

2 - Damaged friable suspect surfacing ACM.

3 - Significantly damaged friable suspect surfacing ACM.

4 - Damaged or significantly damaged friable miscellaneous suspect ACM.

5 - Suspect ACM with potential for damage.

6 - Suspect ACM with potential for significant damage.

7 - Any remaining friable suspect ACM.

8 - Undamaged nonfriable suspect ACM.

9 - Damaged nonfriable suspect ACM.

10 - Significantly damaged nonfriable suspect ACM.

BUILDING ID: USDA/8930 WPKY DATE INSPECTED: 11/09/90

INSPECTOR: R.K. Clifton CERTIFICATION #: 7MW 1090677R

HOMOGENEOUS AREAS

AREA #	DESCRIPTION	QUANTITY	MATERIAL TYPE	ACM
1	Black tar & gravel roof	65,667 sf	M	Y
2	White perf. 2'x 4' ceiling tile	197,000 sf	M	N
3	White mudded 3" elbows	63	T	Y
4	4" yel. fibrous PJ insulation	29	T	N
5	White mudded gatevalves & elbows abv ceil-1/2" lne	6	T	Y
6	9" x 9" tan floor tile	180,861 sf	M	Y
7	12" x 12" cream floor tile	16,160 sf	M	N
8	Black rubber vibration damper	53 sf	M	N
9	Vent duct w/brown paper wrap w/blk back	400 sf	T	N
10	Tan pipe wrap, fiberglass w/black back	760 lf	T	N

LEGEND: ACM = ASBESTOS CONTAINING MATERIAL
Y = YES, MATERIAL IS ACM
N = NO, MATERIAL IS NOT ACM
SF = SQUARE FEET
LF = LINEAR FEET
PJ = PIPE JOINT
CT = CEILING TILE
FT = FLOOR TILE

BUILDING ID: USDA/8930 WPKY DATE INSPECTED: 11/09/90

INSPECTOR: R.K. Clifton CERTIFICATION #: 7MW 1090677R

HOMOGENEOUS AREAS

AREA #	DESCRIPTION	QUANTITY	MATERIAL TYPE	ACM
11	White & tan cementitious ceiling	5380 sf	S	N
12	White 5/8" drywall	25,738 sf	M	N
13	White drywall mud	780 sf	M	N
14	12" off-white pipe wrap insulation	42 sf	T	N
15	Black mastic on rubber baseboard	7200 lf	M	N
16	Brown/Tan mastic on rubber baseboard	7200 lf	M	N
17	Tan mastic on rubber baseboard	7200 lf	M	N

LEGEND: ACM = ASBESTOS CONTAINING MATERIAL
Y = YES, MATERIAL IS ACM
N = NO, MATERIAL IS NOT ACM
SF = SQUARE FEET
LF = LINEAR FEET
PJ = PIPE JOINT
CT = CEILING TILE
FT = FLOOR TILE

BUILDING ID:USDA/8930WPKY DATE INSPECTED: 11/09/90

INSPECTOR:R.K. Clifton CERTIFICATION #: 7MW 1090677R

FUNCTIONAL SPACE FORM

FUNCTIONAL SPACE DESCRIPTION	HOMOGENEOUS AREA DESCRIPTION	HMGS AREA #	QUANTITY	MATERIAL TYPE	ASSESS CODE
Roof	Black tar & gravel roof	1	65,667 sf	M	8
Jan closet 3rd fl w/access to roof	White perf 2'x 4' ceiling tile	2	200 sf	M	7
Jan closet 3rd fl w/access to roof	9"x 9" tan floor tile	6	200 sf	M	9
Air handlers rm, 3rd floor	Black rubber vibration damper	8	53 sf	T	8
Air handlers rm, 3rd floor	White plaster 3" elbow	3	17	T	6
Air handlers rm, 3rd floor	Air duct w/brn paper wrap/blk back	9	400 sf	T	9

LEGEND: SF = SQUARE FEET LF = LINEAR FEET PJ = PIPE JOINT
CT = CEILING TILE FT = FLOOR TILE
M = MISCESLLANEOUS T = THERMAL S = SURFACING
ASSESS CODE: SEE ATTACHED ASSESMENT CODE LIST

BUILDING ID:USDA/8930WPKY DATE INSPECTED: 11/09/90

INSPECTOR:R.K. Clifton CERTIFICATION #: 7MW 1090677R

FUNCTIONAL SPACE FORM

FUNCTIONAL SPACE DESCRIPTION	HOMOGENEOUS AREA DESCRIPTION	HMGS AREA #	QUANTITY	MATERIAL TYPE	ASSESS CODE
Phone cable rms - 1st, 2nd, 3rd floor	Tan cementious ceiling	11	220 sf	S	7
Air handlers rm 2nd floor	Tan p. wrap fiberglass w/black back	10	421 lf	T	7
Store rm by Jan clos, 1st fl rm 123	White 2'x 4' ceiling tile	2	150 sf	M	7
Air handlers rm #122, 1st floor	Pipe wrap fiberglass w/black back	10	278 lf	T	7
Air handlers rm #122, 1st floor	White & Tan cementious ceiling	11	820 sf	S	7

LEGEND: SF = SQUARE FEET LF = LINEAR FEET PJ = PIPE JOINT
CT = CEILING TILE FT = FLOOR TILE
M = MISCESLLANEOUS T = THERMAL S = SURFACING
ASSESS CODE: SEE ATTACHED ASSESMENT CODE LIST

BUILDING ID:USDA/8930WPKY DATE INSPECTED: 11/09/90

INSPECTOR:R.K. Clifton CERTIFICATION #: 7MW 1090677R

FUNCTIONAL SPACE FORM

FUNCTIONAL SPACE DESCRIPTION	HOMOGENEOUS AREA DESCRIPTION	HMGS AREA #	QUANTITY	MATERIAL TYPE	ASSESS CODE
Store rm by Jan clos /1st fl rm 123	12"x 12" cream floor tile	7	150 sf	M	8
Janitor's closet, rm 123	White 5/8" drywall	12	500 sf	M	7
Janitor's closet, rm 123	White drywall mud	13	30 sf	M	7
Air cond rm off computer rm 1st floor	Tan 9"x 9" floor tile	6	1500 sf	M	9
E NCC rm or comp rm 1st fl	White 5/8" drywall	12	3000 sf	M	7
Air handlers rm, 2nd floor	4" yellowish fibrous PJ	4	27 joints	T	7

LEGEND: SF = SQUARE FEET LF = LINEAR FEET PJ = PIPE JOINT
CT = CEILING TILE FT = FLOOR TILE
M = MISCESLLANEOUS T = THERMAL S = SURFACING
ASSESS CODE: SEE ATTACHED ASSESMENT CODE LIST

BUILDING ID:USDA/8930WPKY DATE INSPECTED: 11/09/90

INSPECTOR:R.K. Clifton CERTIFICATION #: 7MW 1090677R

FUNCTIONAL SPACE FORM

FUNCTIONAL SPACE DESCRIPTION	HOMOGENEOUS AREA DESCRIPTION	HMGS AREA #	QUANTITY	MATERIAL TYPE	ASSESS CODE
	insulation				
Janitor's closet leading to roof	White drywall mud	13	80 sf	M	7
S elevator rm, 1st floor	2'x 4' white ceiling tile	2	190 sf	M	7
Heat/air rm 1st fl off computer rm	12" tan pipe wrap insulation	14	42 sf	T	7
Copier area 3rd fl behind copier	black mastic on baseboard	15	ap 7200 lf	M	8
Hall 2nd fl across from pillar 2C8	Brown/Tan mastic on baseboard	16	ap 7200 lf	M	8

LEGEND: SF = SQUARE FEET LF = LINEAR FEET PJ = PIPE JOINT
CT = CEILING TILE FT = FLOOR TILE
M = MISCESLLANEOUS T = THERMAL S = SURFACING
ASSESS CODE: SEE ATTACHED ASSESMENT CODE LIST

BUILDING ID:USDA/8930WPKY DATE INSPECTED: 11/09/90

INSPECTOR:R.K. Clifton CERTIFICATION #: 7MW 1090677R

FUNCTIONAL SPACE FORM

FUNCTIONAL SPACE DESCRIPTION	HOMOGENEOUS AREA DESCRIPTION	HMGS AREA #	QUANTITY	MATERIAL TYPE	ASSESS CODE
Hall 1st floor next to rm 121	Tan mastic on baseboard	17	ap 7200 lf	M	8
Heat & Air cond rm off comp rm 1st fl	White mudded 1/2" jnts/gatevalves	5	6 joints	T	1
Air handlers rm 3rd fl	White Drywall	12	530 sf	M	8
Heat/air rm, NW corner NCC	Drywall mud	13	47 sf	M	7
Heat/air rm off 1st fl computer rm	(QC samp) 12" tan P.wrp insulation	14	42 sf	T	7
Air handlers room, 3rd floor	(QC samp) 4" yel.fib. PJ ins	4	29 joints	T	7

LEGEND: SF = SQUARE FEET LF = LINEAR FEET PJ = PIPE JOINT
CT = CEILING TILE FT = FLOOR TILE
M = MISCESLLANEOUS T = THERMAL S = SURFACING
ASSESS CODE: SEE ATTACHED ASSESMENT CODE LIST

BUILDING ID: USDA/8930 WPKY

DATE INSPECTED: 11/09/90

INSPECTOR: R.K. Clifton

CERTIFICATION #: 7MW 1090677R

BULK SAMPLING DATA

SAMPLE NUMBER	HOMO LOC	FLOOR LOC	ROOM LOC	DESCRIPTION OF MATERIAL	ASBESTOS TYPE/%
R001	1		roof	Black roofing tar	8% C
CT002	2	3rd	Janitor Closet	White perf 2'x 4' ceiling tile	ND
FT003	6	3rd	Janitor Closet	9" x 9" tan floor tile	10% C
VJ004	8	3rd	Air handling rm	Rubber vibration damper	ND
PJ005	3	3rd	Air handling rm	White 3" elbow pipe joint	15%A 5%C
DW006	12	3rd	Air hand. rm	White chalky drywall	ND
DW007	9	3rd	Air handling rm	Yellow fib. duct wrap w/brn paper	ND

REMARKS: ND = NONE DETECTED
TR = TRACE
C = CHRYSOTILE ASBESTOS
CR = CROCIDOLITE ASBESTOS
A = AMOSITE ASBESTOS

BUILDING ID: USDA/8930 WPKY DATE INSPECTED: 11/09/90

INSPECTOR: R.K. Clifton CERTIFICATION #: 7MW 1090677R

BULK SAMPLING DATA

SAMPLE NUMBER	HOMO LOC	FLOOR LOC	ROOM LOC	DESCRIPTION OF MATERIAL	ASBESTOS TYPE/%
CC008	11	3rd	Phone cable room	White & tan cement. ceiling	ND
PW009	10	2nd	Air handling rm	tan pipe wrap w.black backing	ND
CT010	2	1st	123	White perf 2' x 4' ceiling tile	ND
PW011	10	1st	122	Tan 3" pipe wrap ins w/black back	ND
CC012	11	1st	122	Cementitious ceiling	ND
FT013	7	1st	123	12"x 12" cream floor tile	ND

REMARKS: ND = NONE DETECTED TR = TRACE
C = CHRYSOTILE ASBESTOS
CR = CROCIDOLITE ASBESTOS
A = AMOSITE ASBESTOS

BUILDING ID: USDA/8930 WPKY DATE INSPECTED: 11/09/90

INSPECTOR: R.K. Clifton CERTIFICATION #: 7MW 1090677R

BULK SAMPLING DATA

SAMPLE NUMBER	HOMO LOC	FLOOR LOC	ROOM LOC	DESCRIPTION OF MATERIAL	ASBESTOS TYPE/%
DW014	12	1st	123	5/8" white drywall	ND
DWM015	13	1st	123	white drywall mud	ND
PW016	14	1st	Heat & air cond	12" off white pipe wrap insulation	ND
PJ017	5	1st	Heat & air cond	Off wht 1/2" PJ mud above ceiling	15%A 3%C
DWM018	13	1st	Heat & air cond	White drywall mud	ND
FT019	6	1st	Heat & air cond	9"x 9" tan floor tile	5% C
DW020	12	1st	NCC room	White 5/8" drywall	ND

REMARKS: ND = NONE DETECTED TR = TRACE
C = CHRYSOTILE ASBESTOS
CR = CROCIDOLITE ASBESTOS
A = AMOSITE ASBESTOS

BUILDING ID: USDA/8930 WPKY DATE INSPECTED: 11/09/90

INSPECTOR: R.K. Clifton CERTIFICATION #: 7MW 1090677R

BULK SAMPLING DATA

SAMPLE NUMBER	HOMO LOC	FLOOR LOC	ROOM LOC	DESCRIPTION OF MATERIAL	ASBESTOS TYPE/%
PJ021	4	2nd	Air handling rm	4" yellow fibrous pipe joint insul.	ND
DWM022	13	3rd	Janitor Closet	Drywall mud	ND
CT023	2	1st	S. Elevator Rm	White perf 2'x 4' ceiling tile	ND
QC024	4	2nd	Air handling rm	4" yellow fibrous pipe joint insul	ND
QC025	14	1st	Heat & air cond	Off white 12" pipe wrap	ND
BBM026	15	3rd	Behind copier	Black mastic	ND

REMARKS: ND = NONE DETECTED TR = TRACE
C = CHRYSOTILE ASBESTOS
CR = CROCIDOLITE ASBESTOS
A = AMOSITE ASBESTOS

BUILDING ID: USDA/8930 WPKY

DATE INSPECTED: 11/09/90

INSPECTOR: R.K. Clifton

CERTIFICATION #: 7MW 1090677R

BULK SAMPLING DATA

SAMPLE NUMBER	HOMO LOC	FLOOR LOC	ROOM LOC	DESCRIPTION OF MATERIAL	ASBESTOS TYPE/%
BBM027	16	2nd	S side of Escal.	Tan mastic	ND
BBM028	17	1st	By storage clos.	Tan mastic	ND

REMARKS: ND = NONE DETECTED
TR = TRACE
C = CHRYSOTILE ASBESTOS
CR = CROCIDOLITE ASBESTOS
A = AMOSITE ASBESTOS

USDA/ASCS
8930 WARD PARKWAY
KANSAS CITY, MISSOURI 64141

On the drawings, the hash marks note 1' x 1' floor tile which was found to be non-asbestos-containing material (ACM). All other areas have 9" x 9" tan floor tile underneath carpeting. This floor tile and mastic, which exists on all three floors, contains asbestos.

ACM

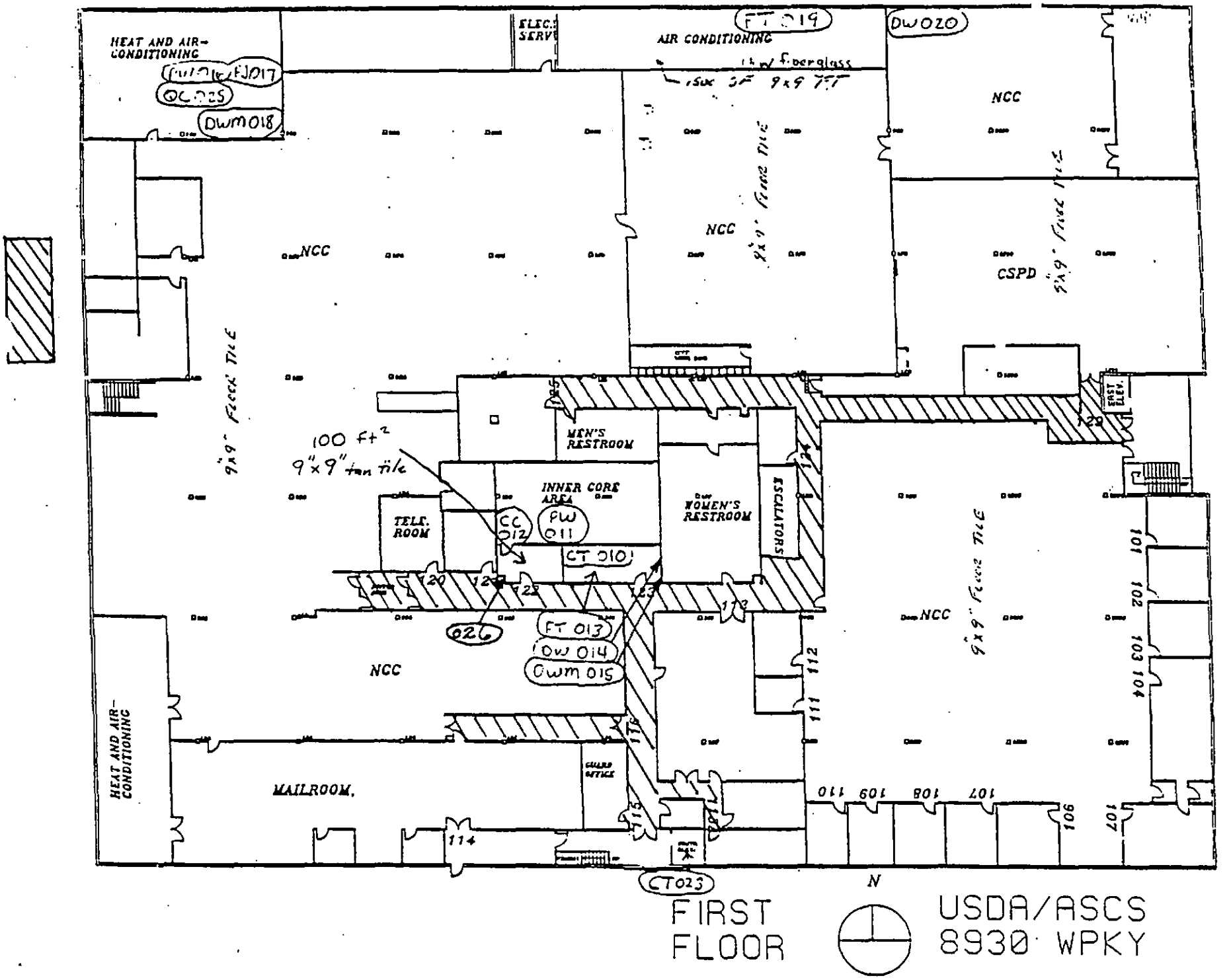
Approximate Footage

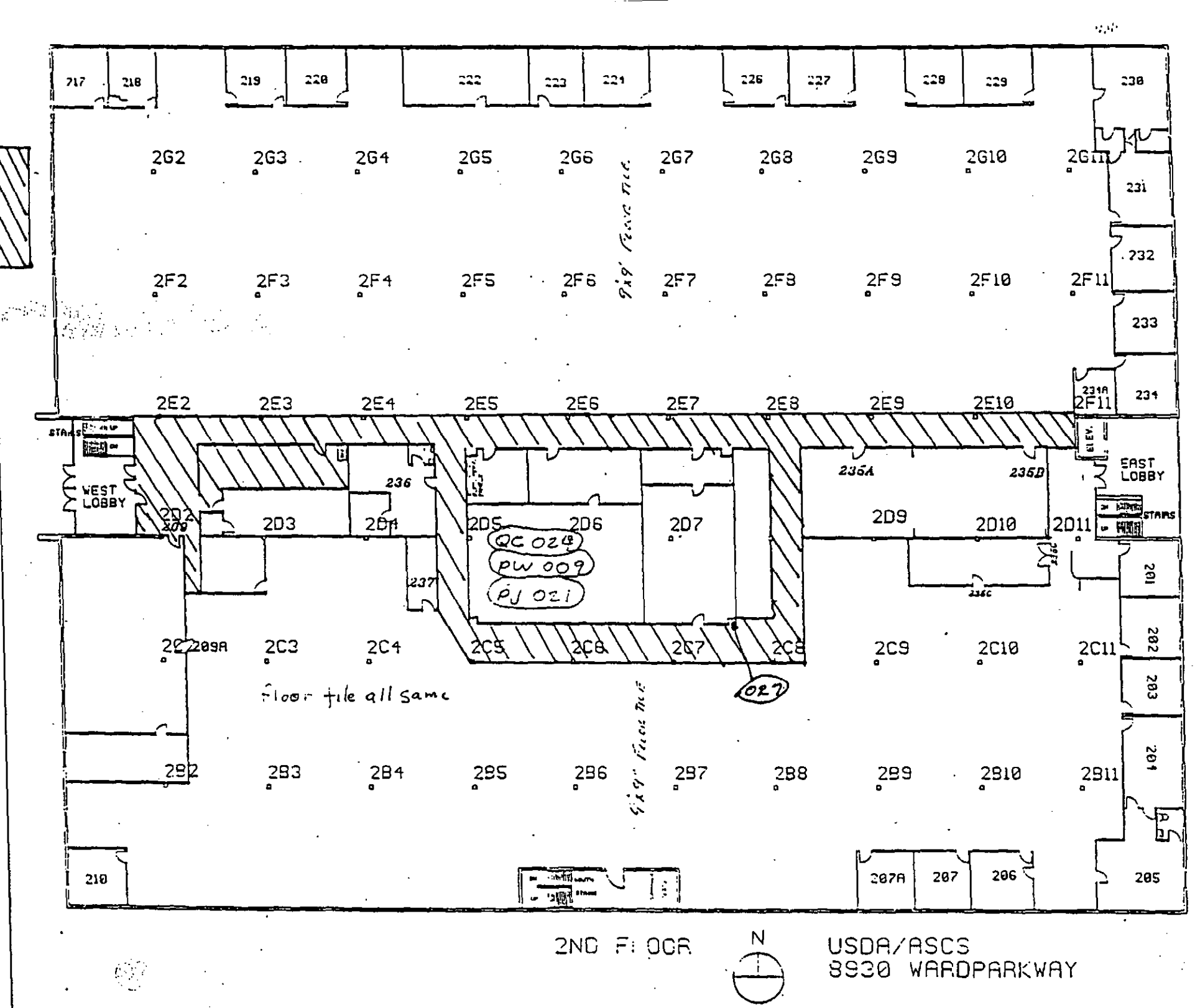
1st Floor - 9" x 9" tan floor tile.....60,467 sf
2nd Floor - 9" x 9" tan floor tile.....62,287 sf
3rd Floor - 9" x 9" tan floor tile.....59,087 sf

NON-ACM

Approximate Footage

1st Floor - 1' x 1' cream colored floor tile...5,200 sf
2nd Floor - 1' x 1' cream colored floor tile...4,380 sf
3rd Floor - 1' x 1' cream colored floor tile...6,580 sf

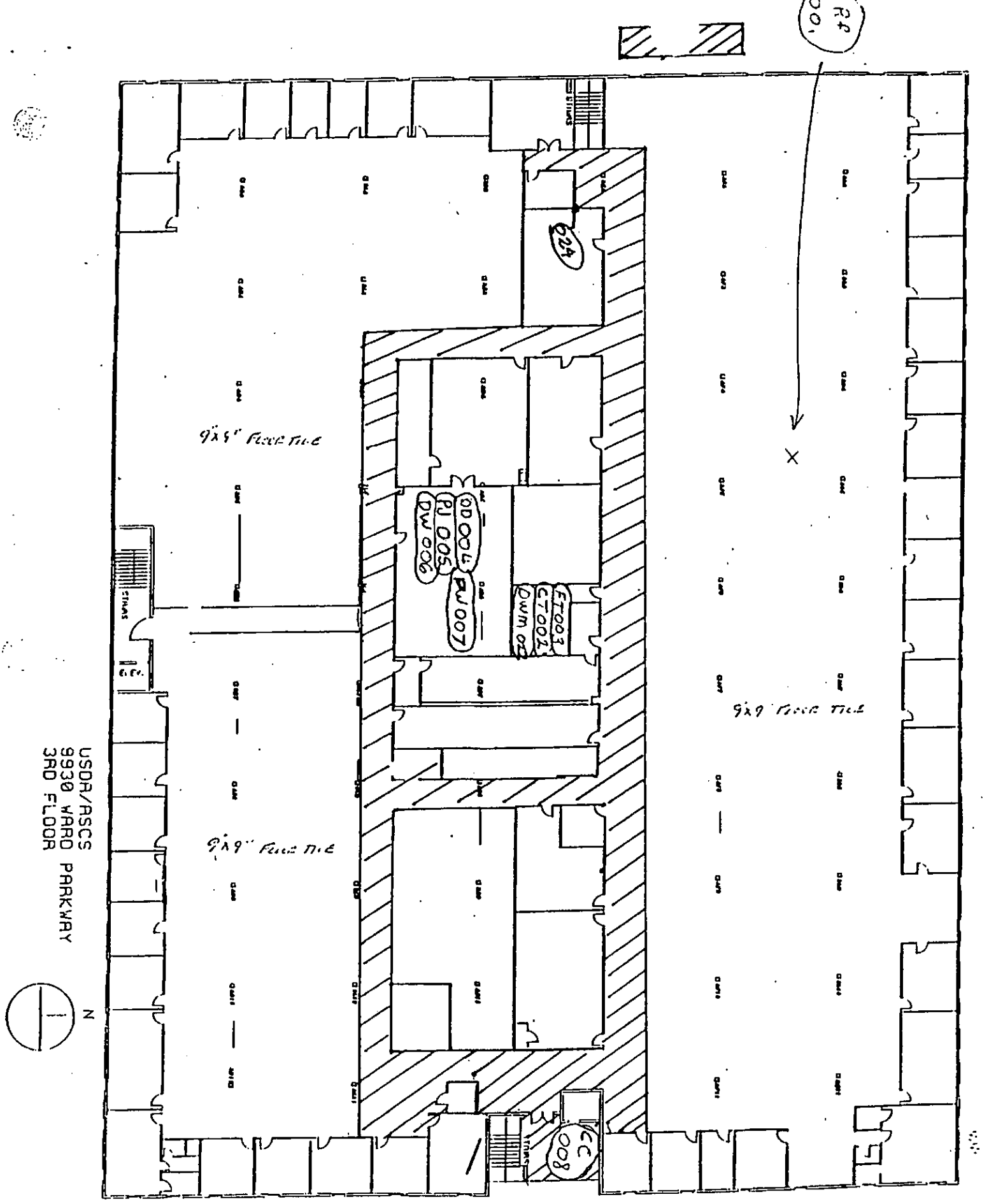

HEAT AND AIR-CONDITIONING
ELEC. SERV
AIR CONDITIONING
FT 019
DW020
FW017
EJ017
QC025
DWM018
NCC
CSPD
9"x9" Floor Tile
MEN'S RESTROOM
WOMEN'S RESTROOM
INNER CORE AREA
TELE. ROOM
ESCALATORS
EAST ELEV.
100 Ft²
9"x9" tan tile
CC 012
FW 011
CT 0101
026
FT 013
DW 014
DWM 015
MAILROOM.
GUARD OFFICE
HEAT AND AIR-CONDITIONING
CT023
N
FIRST FLOOR
USDA/ASCS
8930 WPKY



2ND FLOOR

N

USDA/ASCS
8930 WARDPARKWAY


9"x9" floor tile
9"x9" floor tile
9"x9" floor tile
624
PJ 005
DW 006
PJ 007
FT003
CT002
DWM 008
CC 008
USDA/ASCS
9930 WARD PARKWAY
3RD FLOOR
N

[illegible]
14953 W. 101st Terr.
Lenexa, KS 6
(913) 492-1557

ASBESTOS BULK ANALYSIS LABORATORY REPORT

NVLAP ACCREDITATION
Asbestos F[illegible]nalysis
NVLAP Lab [illegible].649

Client: Occu-Tec

Job : 1163

Sample Date:

Address:

Collected By: RK Clifton

Report # 9-4078

Submitted By: Jim Carolla

Analyst: Tim Barrow

Date Submitted: 11/06/90

Analysis Date : 11/07/90

The asbestos analysis was performed by polarized light microscopy with dispersion staining in accordance with EPA test method for the determination of asbestos in bulk samples (EPA-600/m4-82-020). The approximate percentage of fibers is listed. Method of measurement is based on visual approximation. The data provided herein relates only to those samples submitted for analysis.

Sample #	Description of Material	Exact Location of Material	Asbestos Form	%	Non-asbestos Forms	%	Non-fibrous Forms	%
R-001	Black viscous		Chrysotile	8	N/A	N/A	Bulk	92
CT-002	Gray fibrous		None Detected		Cellulose Fibrous glass	30 45	Bulk	25
FT-003	Beige cementitous		Chrysotile	10	N/A	N/A	Bulk	90
VJ-004	Brown fibrous cloth		None Detected		Cotton	90	Bulk	10
PJ-005	Beige chalky		Anosite Chrysotile	15 5	Fibrous glass	35	Bulk	45
DW-006	Off-white chalky/brown fibrous		None Detected		Cellulose Fibrous glass	40 25	Bulk	35

Comments:

(b) (6) [redacted]

Laboratory Director

[illegible] West Jeff.
Lenexa, KS 66
(913) 492-1337

Asbestos Fi[illegible] Analysis
NVLAP Lab [illegible] 49

Client: Occu-Tec

Job : 1163

Sample Date:

Address:

Collected By: RK Clifton

Report # 9-4078

Submitted By: Jim Carolla

Analyst: Tim Barron

Date Submitted: 11/06/90

Analysis Date : 11/07/90

The asbestos analysis was performed by polarized light microscopy with dispersion staining in accordance with EPA test method for the determination of asbestos in bulk samples (EPA-600/m4-82-020). The approximate percentage of fibers is listed. Method of measurement is based on visual approximation. The data provided herein relates only to those samples submitted for analysis.

Sample #	Description of Material	Exact Location of Material	Asbestos Form	%	Non-asbestos Forms	%	Non-fibrous Forms	%
FT-013	Off-white cementitous		None Detected		Cellulose	trace	Bulk	100
DW-014	White chalky/tan fibrous		None Detected		Fibrous glass Cellulose	15 25	Bulk	60
DW-015	Off-white chalky/tan fibrous		None Detected		Cellulose Synthetic	20 trace	Bulk	80
[illegible]-016	White chalky/fibrous		None Detected		Synthetic Fibrous glass	35 20	Bulk	45
PJ-017	Off-white chalky/fibrous		[illegible]esite Crocidolite	15 3	Fibrous glass	35	Bulk	
DMW-018	Off-white/tan cementitous		None Detected		Cellulose	5	Bulk	95

Comments:

(b) (6)

Laboratory Director

14953 W. 101st Terr.
Lenexa, KS 6
(913) 492-1337

NVLAP ACCREDITATION
Asbestos F - Analysis
NVLAP Lab 649

Client: Occu-Tec

Job : 1163

Sample Date:

Address:

Collected By: RK Clifton

Report # B-4078

Submitted By: Jim Carolla

Analyst: Tim Barrow

Date Submitted: 11/06/90

Analysis Date : 11/07/90

The asbestos analysis was performed by polarized light microscopy with dispersion staining in accordance with EPA test method for the determination of asbestos in bulk sample (EPA-600/m4-82-020). The approximate percentage of fibers is listed. Method of measurement is based on visual approximation. The data provided herein relates only to those samples submitted for analysis.

Sample #	Description of Material	Exact Location of Material	Asbestos Form	%	Non-asbestos Forms	%	Non-fibrous Forms	
FT-019	Tab cementitous		Chrysotile	5	N/A	N/A	Bulk	95
DW-020	White chalky/tan fibrous		None Detected		Cellulose Fibrous glass	40 10	Bulk	50
PJ-021	Yellow fibrous		None Detected		Fibrous glass Cotton	55 30	Bulk	15
DWK-022	Off-white chalky fibrous		None Detected		Cellulose	45	Bulk	55
CT-023	Gray fibrous		None Detected		Cellulose Fibrous glass	35 30	Bulk	
QC-024	Yellow fibrous		None Detected		Cotton Fibrous glass Cellulose	45 30 15	Bulk	10
QC-025	White chalky/fibrous		None Detected		Synthetic Fibrous glass	35 15	Bulk	50

Comments:

(b) (6)

[illegible]
14953 W. 10[illegible] Tr.
Lenexa, KS
(913) 492-1337

ASBESTOS BULK ANALYSIS LABORATORY REPORT

NVLAP ACCREDITATION
Asbestos Analysis
NVLAP Lab [illegible] 1649

Client: Occu-Tec

Job : 1163

Sample Date:

Address:

Collected By:

Report # S-4094

Submitted By: RK Clifton

Analyst: Jim Pickel

Date Submitted: 11/12/90

Analysis Date : 11/12/90

The asbestos analysis was performed by polarized light microscopy with dispersion staining in accordance with EPA test method for the determination of asbestos in bulk samples (EPA-600/m4-82-020). The approximate percentage of fibers is listed. Method of measurement is based on visual approximation. The data provided herein relates only to those samples submitted for analysis.

Sample #	Description of Material	Exact Location of Material	Asbestos Form	%	Non-asbestos Forms	%	Non-fibrous Forms	
BBM-024 BBM-026	Brown cementitous		None Detected		Cellulose	trace	Bulk	100
BBM-025 BBM-027	Brown tan cementitous	Mastic on baseboard	None Detected		Cellulose	trace	Bulk	100
BBM-026 BBM-028	Tan cementitous	Mastic on baseboard	None Detected		Cellulose	trace	Bulk	100

Comments:

(b) (6) [redacted]

Laboratory Director

14953 W. 101st Terr.
Lenexa, KS 66
(913) 492-1337

NVLAP Accreditation
Asbestos Fiber Analysis
NVLAP Lab 649

Client: Occu-Tec

Job : 1163

Sample Date:

Address:

Collected By: RK Clifton

Report # B-4078

Submitted By: Jim Carolla

Analyst: Tim Barrow

Date Submitted: 11/06/90

Analysis Date : 11/07/90

The asbestos analysis was performed by polarized light microscopy with dispersion staining in accordance with EPA test method for the determination of asbestos in bulk sa (EPA-600/m4-82-020). The approximate percentage of fibers is listed. Method of measurement is based on visual approximation. The data provided herein relates only to thos samples submitted for analysis.

Sample #	Description of Material	Exact Location of Material	Asbestos Form	%	Non-asbestos Fores	%	Non-fibrous Fores
PW-007	Yellow fibrous/brown paper		None Detected		Fibrous glass Cellulose	55 25	Bulk
CC-008	White/tan cementitous		None Detected		N/A	N/A	Bulk
PW-009	Tan/black fibrous		None Detected		Cellulose	65	Bulk
CT-010	Lt. gray fibrous		None Detected		Cellulose Fibrous glass	45 40	Bulk
PW-011	Tan fibrous-black viscous		None Detected		Fibrous glass Cotton Cellulose	45 30 15	Bulk
CC-012	Off-white cementitous		None Detected		N/A	N/A	Bulk

Comments:

(b) (6)

Laboratory Director

February 12, 1982

Operations Branch, EMD (6PBO)

Combustion Efficiency Tests and External Boiler Inspection,
Federal Office Building, 8930 Ward Parkway, Kansas City, MO

6PF-4S

The following equipment was inspected on February 9, 1982; recommendations developed as a result of this inspection should receive your attention.

No. 1, 3F27 (1960) Thermo Pac Boiler

Externally fittings and controls appeared in order and good repair. Considerable rust and other foreign objects were noted on the floor under the burner plate. Suggest this area be cleaned up.

Combustion efficiency tests were conducted with unfavorable results. As indicated, the stack temperature and oxygen readings are excessive which produces a very low efficiency. This condition is produced by a poorly designed burner from the era of cheap energy costs. A copy of this report is being submitted to 6PBI recommending new programed forced air burners be installed in No. 1 and 2 boilers.

FUEL GAS/HIGH FIRE

Stack Temperature	611°F
Ambient	80°F
Net Stack Temperature	531°F
Oxygen (O_2)	14.5%
Combustion Efficiency	60%

No. 2, 3F25 (1959) Thermo Pak Boiler

No. 2 boiler is the lag boiler and at the time of our test was not uniformly hot, however, the readings were basically the same as No. 1 boiler with the exception of the stack temperature.

FUEL GAS/HIGH FIRE

Stack Temperature	370°F	
Ambient	80°F	
Net Stack Temperature	290°F	
Oxygen (O_2)	18.8%	(off scale)
Efficiency	60%	Estimated

During the course of our inspection it was noted the safety relief valve is leaking; this valve should be replaced.

No. 3, 399K4 Kewanee Fire Tube Boiler

Externally fittings and controls were found in order and proper operating condition. Combustion tests were conducted and minor burner adjustments were made with the following results.

FUEL GAS/HIGH FIRE

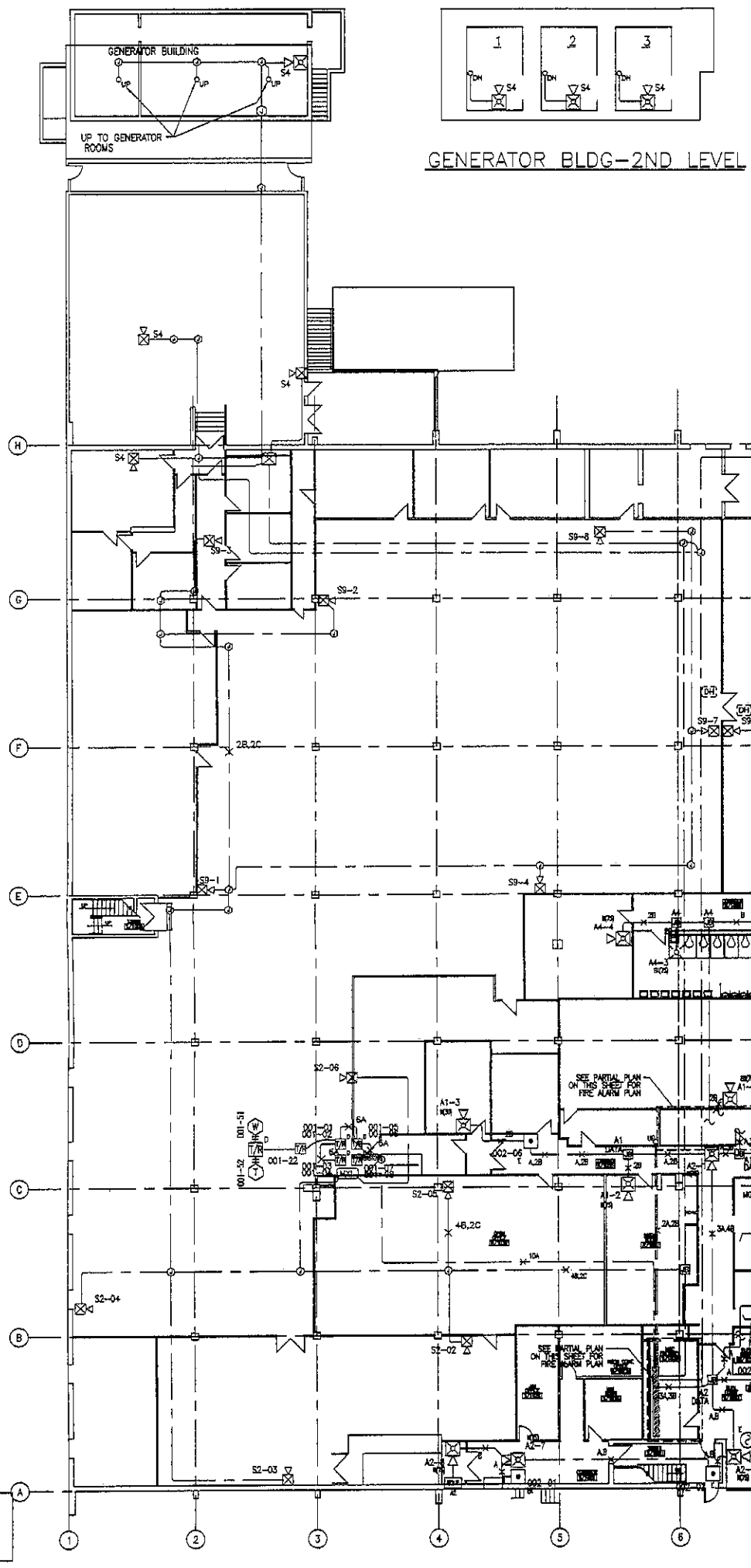
	1	2	3	4	5
Stack Temperature	366°F	327°F	316°F	313°F	313°F
Ambient	46°F	46°F	46°F	46°F	46°F
Net Stack Temperature	320°F	320°F	270°F	267°F	267°F
Oxygen (O_2)	11.5%	7.1%	5.0%	4.1%	4.5%
Efficiency	77.9%	81.3%	82.3%	83.9%	83.7%

As indicated, the ambient room temperature is 46°F through the free air opening. Suggest a motorized damper be installed over the free air opening. The present arrangement allows cold air to flow through the fire box causing possible thermal shock in addition to reduced efficiency.

/s/ JAMES J. HOOVER

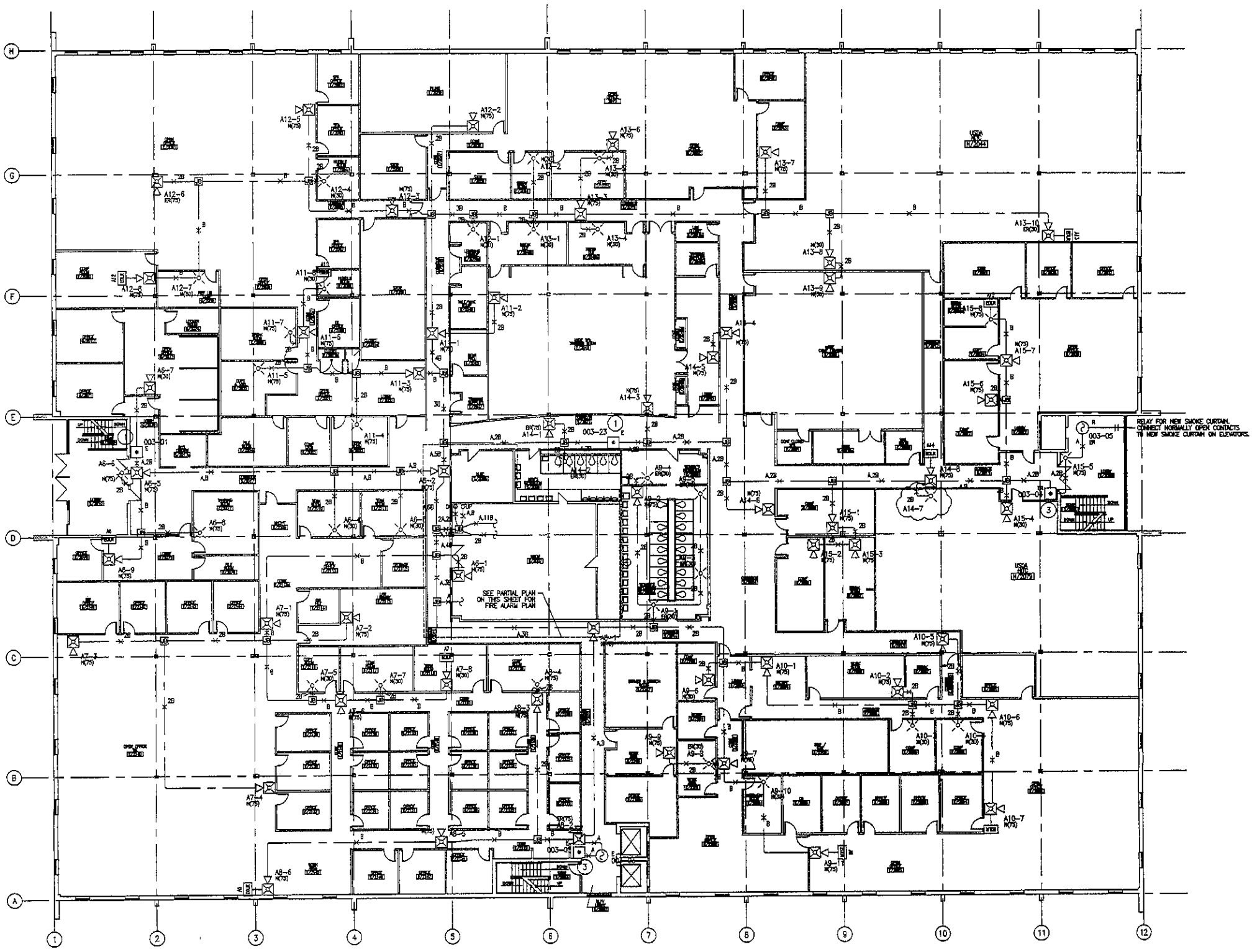
JAMES J. HOOVER
Director, Buildings Management Division
Public Buildings Service

cc:
Official File - 6PBOU
Reading Files - 6P 6PB
6PBI
6PBC
6PBOU:RSkavdahl:sc:2/12/82 x5334



FIRST FLOOR DETECTION PLAN VIEW
SCALE: 1/16"=1'-0"

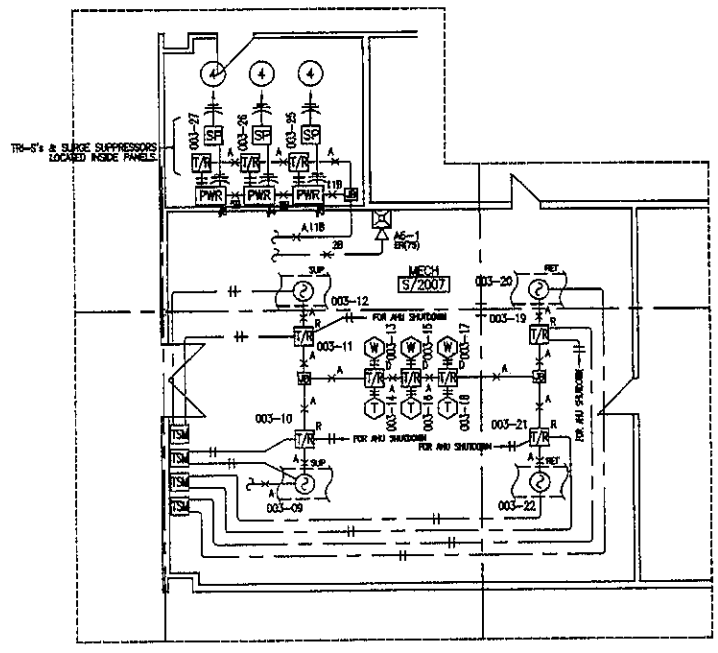
2001-1



SECOND FLOOR DETECTION PLAN VIEW

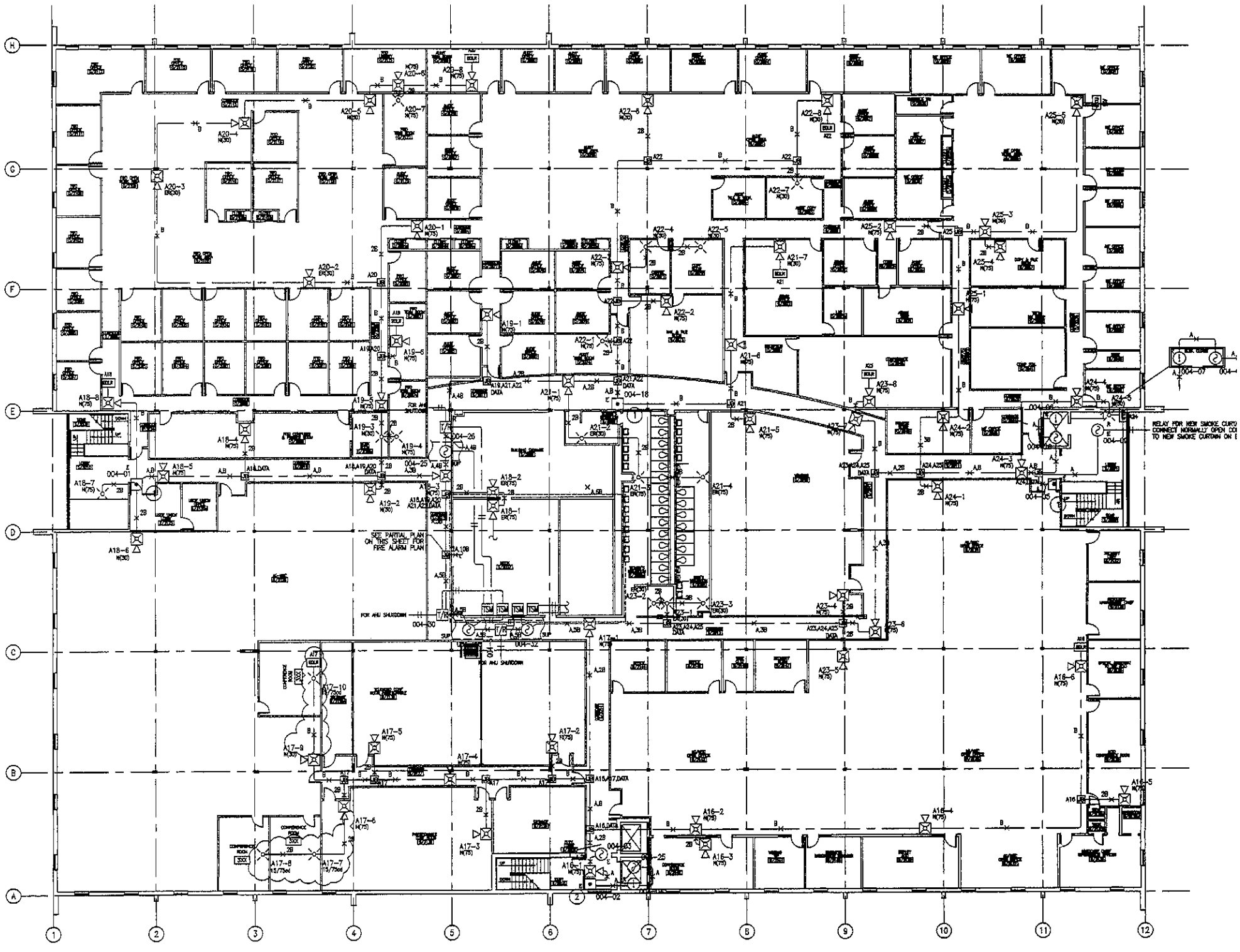
SCALE: 1/16"=1'-0"

NORTH



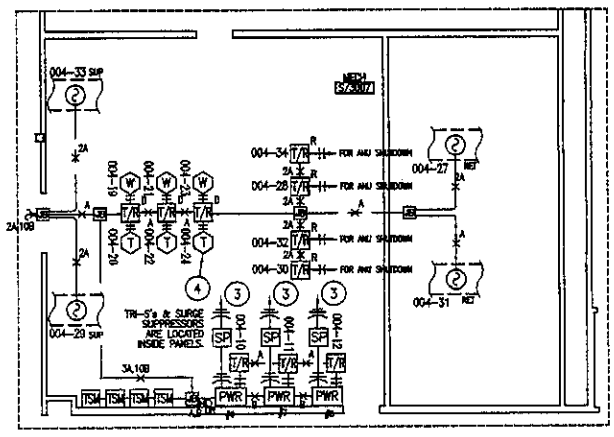
MECHANICAL ROOM DETAIL

SCALE: 1/8"=1'-0"



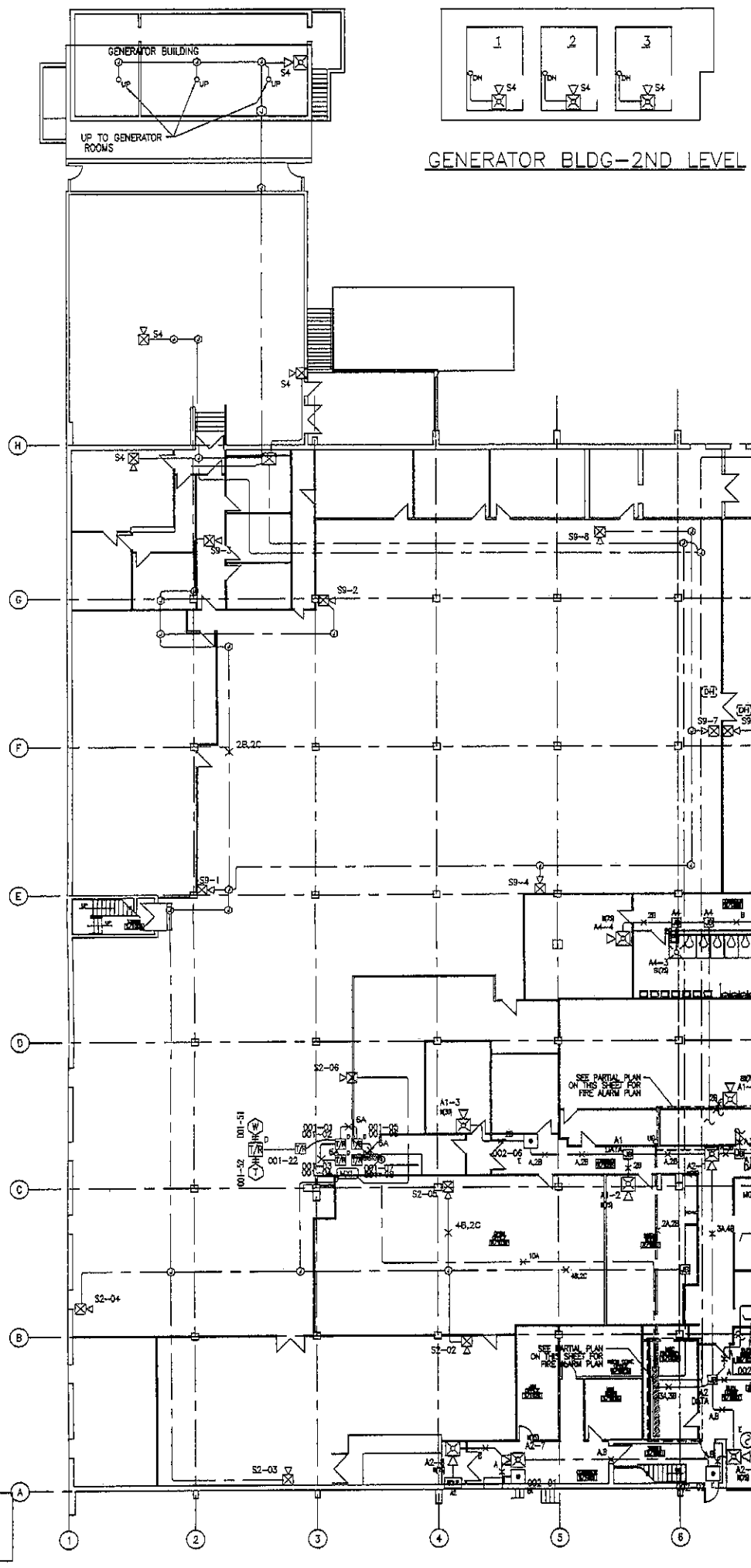
THIRD FLOOR DETECTION PLAN VIEW

SCALE: 1/16"=1'-0"



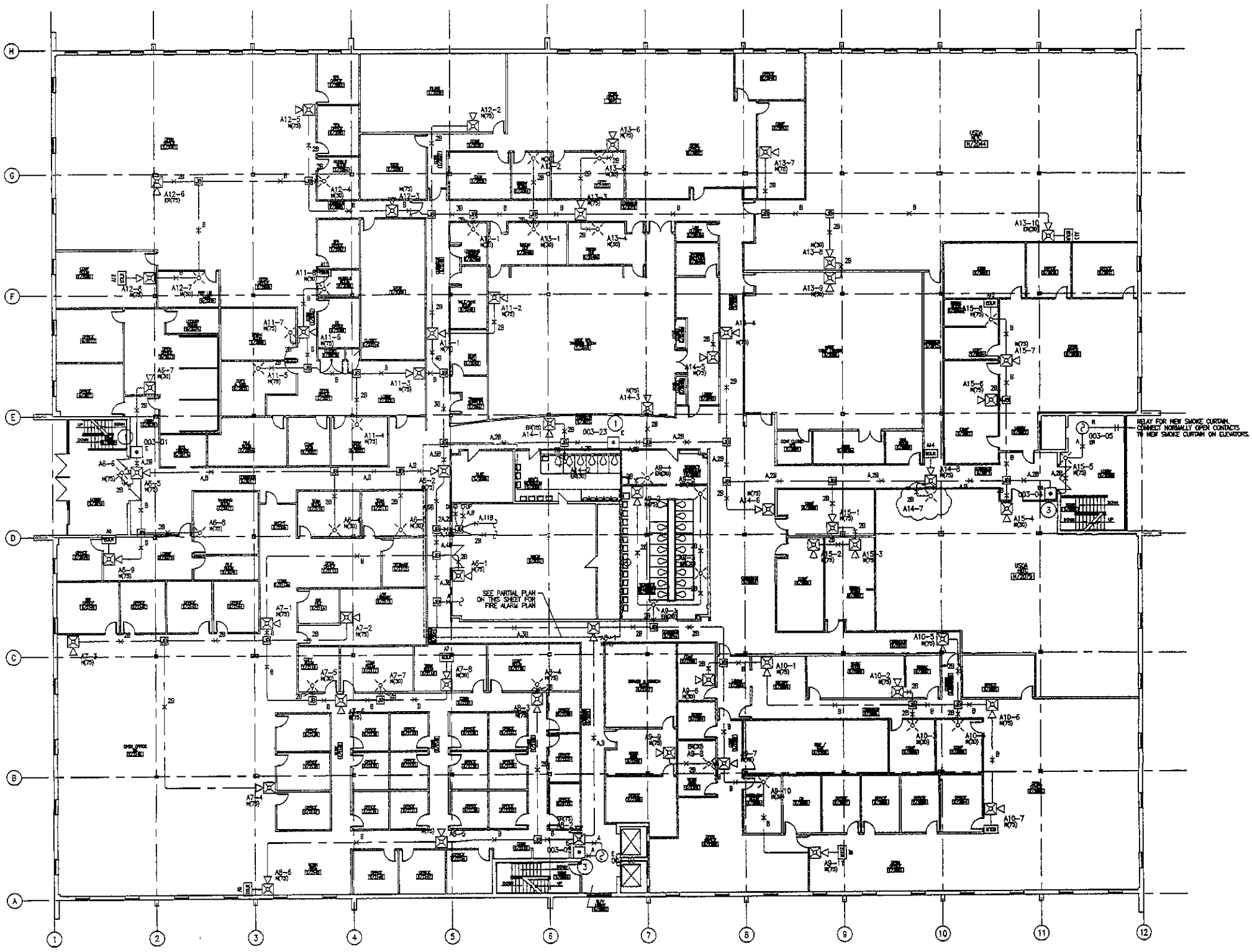
MECHANICAL ROOM DETAIL

NOT TO SCALE



FIRST FLOOR DETECTION PLAN VIEW
SCALE: 1/16"=1'-0"

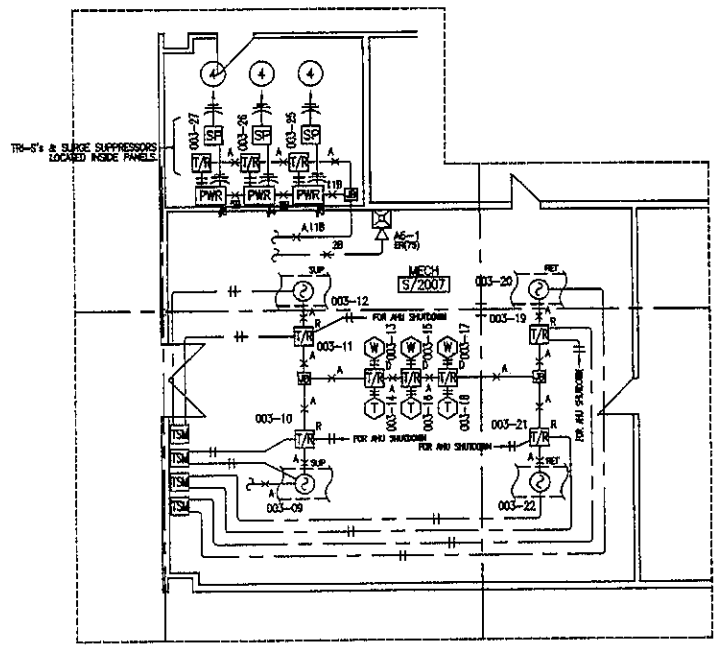
2001-1



SECOND FLOOR DETECTION PLAN VIEW

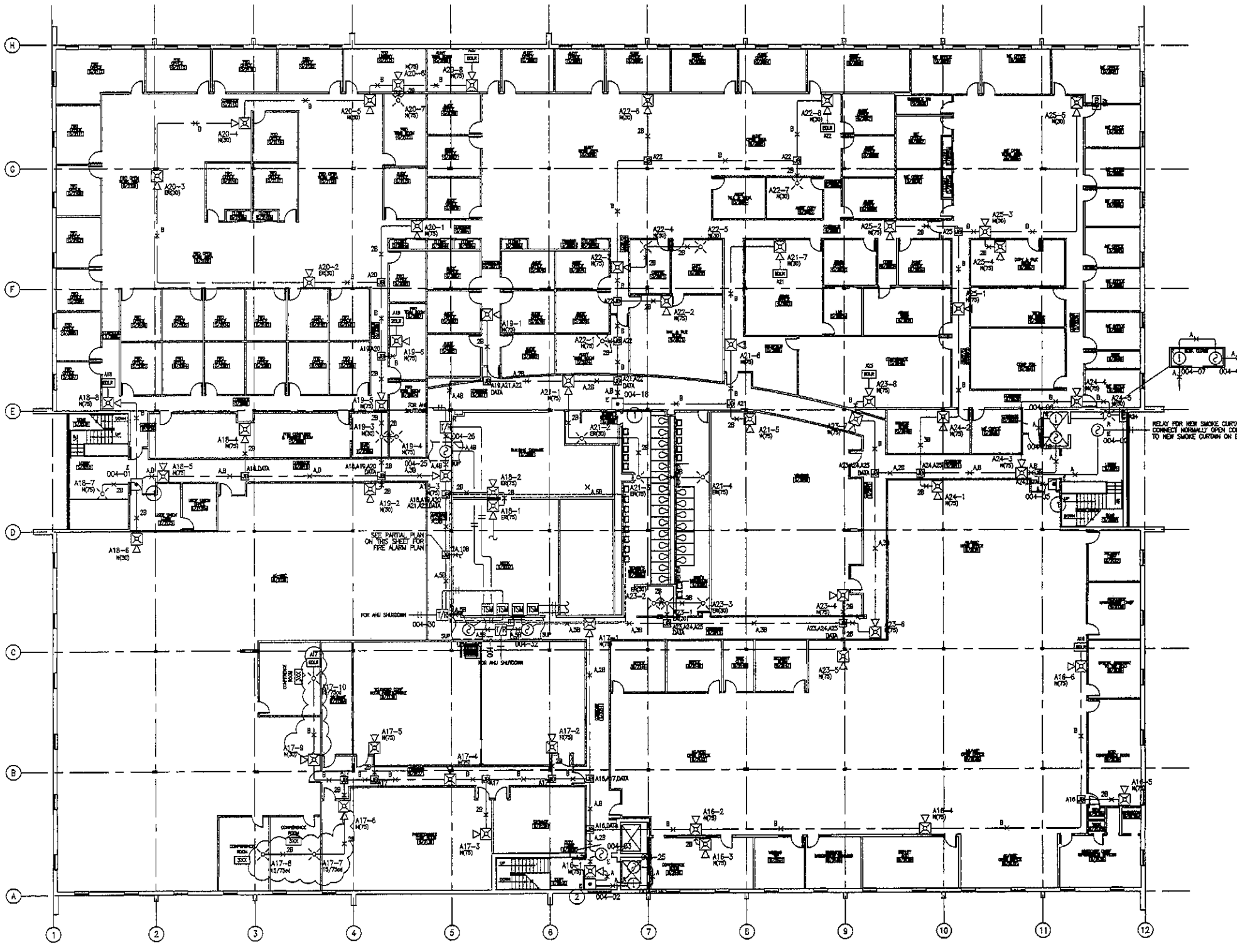
SCALE: 1/16"=1'-0"

NORTH



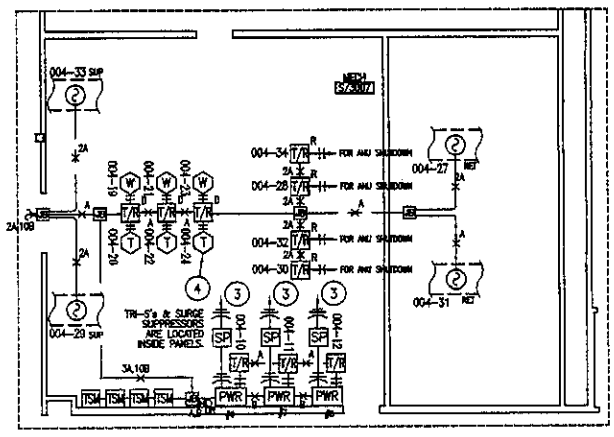
MECHANICAL ROOM DETAIL

SCALE: 1/8"=1'-0"



THIRD FLOOR DETECTION PLAN VIEW

SCALE: 1/16"=1'-0"



MECHANICAL ROOM DETAIL

NOT TO SCALE